

-2K9 (fenster) \site.dwg Mon Nov 02 06:29:28 20

UESIGN\2009\96-2k9(fenster)\si

2) THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THERE BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE PROJECT SITE DURING THE PROGRESS OF THE WORK. THE SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR AND ALL COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE CONTRACTOR.

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PROJECT THROUGH INSPECTION OF THE SITE, THE DRAWINGS AND SPECIFICATIONS, SO AS TO THOROUGHLY UNDERSTAND THE WORK. ANY AND ALL DISCREPANCIES AND OMISSIONS SHALL BE REPORTED AND CLARIFICATION OBTAINED FROM THE ARCHITECT PRIOR TO THE WORK BEING DONE. ANY WORK THAT PROCEEDS OTHERWISE SHALL BE, IF INCORRECTLY PERFORMED, REPLACED OR REPAIRED WITH THE COST FOR SAME BEING BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS FOR COORDINATION

4) ALL WORK SHALL BE PROPERLY PROTECTED AT ALL TIMES. THE CONTRACTOR SHALL FOLLOW ALL ACCEPTED METHODS OF SAFETY PRACTICE AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THIS WORK. HE SHALL REPAIR AT HIS OWN COST ANY DAMAGES TO THE PREMISES OR ADJACENT WORK CAUSED BY HIS OPERATION.

5) ALL PENETRATION OF EXISTING FIRE RATED MEMBRANES SHALL BE PROTECTED AS REQUIRED. REPAIR AND DAMAGE TO EXISTING FIRE PROTECTED MATERIALS.

6) ALL PERMITS, INSPECTIONS APPROVALS, ETC. SHALL BE APPLIED FOR AND PAID FOR BY THE CONTRACTOR. AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF INSPECTIONS AND APPROVALS OF HIS WORK. ALL THERMAL AND ACOUSTIC INSULATION SHALL COMPLY WITH IRC-2006

7) AS STATED: INSULATION-ALL INSULATION MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR BARRIERS OR BREATHER PAPERS INSTALLED WITHIN FLOOR/CEILING ASSEMBLIES, ROOF/CEILING ASSEMBLIES, WALLS, CRAWL SPACES OR ATTICS, SHALL HAVE A FLAME RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH LATEST STANDARDS

8) A COPY OF THE LATEST SET OF CONSTRUCTION DRAWINGS SHALL BE KEPT AT THE JOB SITE.

9) DRAWINGS ARE NOT TO BE SCALED FOR INFORMATION. ALL WRITTEN DIMENSIONS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR

10) MAINTAIN A CLEAN AND ORDERLY WORK AREA AT ALL TIMES. CORE DRILLING NEAR EXISTING TENANTS WILL BE DONE AFTER HOURS OF 5:00 PM AND BEFORE 6:00 AM. PROPER PROTECTION OF EXISTING FURNITURE AND FINISHES AS WELL AS CLEAN UP WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ON SITE G.C. SUPERVISION OF THIS OPERATION IS MANDATORY.

11) DO NOT USE PAINTS, PRIMER, SEALERS, OR GLUES THAT EMIT FLAMMABLE, TOXIC OR NAUSEOUS FUMES. EACH TRADE SHALL BE RESPONSIBLE TO VERIFY THE MATERIALS THEY ARE USING, COMPLY WITH MANUFACTURERS WRITTEN INSTRUCTIONS FOR THEIR USE. "NSDS" SHEET SHALL BE SUBMITTED TO THE GENERAL CONTRACTOR

12) DRAWINGS ASSUME THE EXISTING BUILDING TO BE IN COMPLIANCE WITH CODE REQUIREMENTS. NOTIFY PROPERTY MANAGER AND ARCHITECT OF ANY VIOLATIONS OF CODES DISCOVERED DURING THE COURSE OF CONSTRUCTION IN THE EXISTING BUILDING.

13) MECHANICAL - SUPPLY AND INSTALL AS PER MANUFACTURES INSTRUCTIONS. HVAC OVERRIDE INSTALLATION IS TO BE COORDINATED WITH BOTH MECHANICAL AND ELECTRICAL CONTRACTORS. HVAC UNITS ARE TO BE INSTALLED WITH CLEAR ACCESS TO FILTERS FOR FUTURE MAINTENANCE. SHUT OFF VALVES ARE TO BE LOCATED ON A PLAN AND SUBMITTED TO MANAGER FOR FUTURE REFERENCE. BALANCE SYSTEM UPON COMPLETION TO TENANT COMFORT AND BALANCE BUILDING WATER SYSTEM, WRAP ALL EXPOSED FIBERGLASS INSULATION FOUND IN RETURN AIR PLENUMS WITH (FS25) FOIL SCRIM.

# FLOORING NOTES:

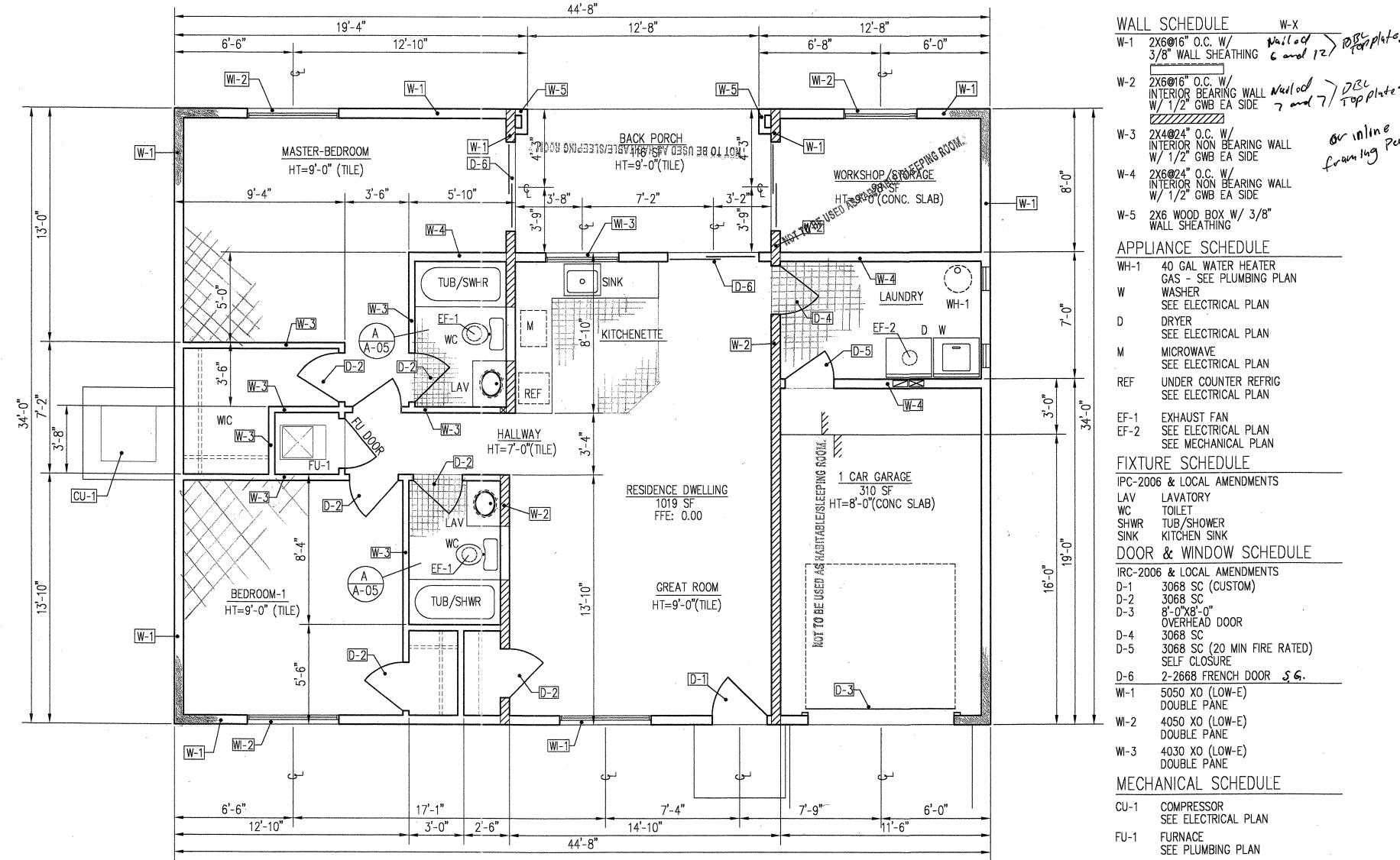
CONTRACTOR SHALL INSPECTED THE SUB FLOORING BEFORE COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY UNACCEPTABLE FINISHED WORK CAUSED BY SUB-FLOOR CONDITIONS AND CORRECTIONS REQUIRED BY THE G.C./OWNER

# FINISH HARDWARE NOTES:

ALL WORK SHALL BE PERFORMED IN A FIRST-CLASS, WORKMANLIKE MANNER, MATCHING AND ALIGNING ALL SURFACES WHERE APPLICABLE TO AFFORI) A NEAT AND FINISHED APPEARANCE. CONTRACTOR SHALL CLEAN SURFACES FREE OF ALL DIRT AND DEBRIS. CONTRACTOR SHALL PROPERLY PROTECT ALL ADJACENT SURFACES DURING THE COURSE OF INSTALLATION(S). ALL GLASS AND HARDWARE SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION.

2 DRYWALL TO BE PAINTED SHALL RECEIVE A "LIGHT STIPPLE" FINISH; DRYWALL BE TO FINISHED WITH FRP BOARD, WALL COVERING AND/OR VENEER SHALL RECEIVE A SMOOTH FINISH. ALL JOINTS, SCREWS AND METAL SHALL RECEIVE MINIMUM THREE COATS JOINT COMPOUND WITH SANDING BETWEEN EACH COAT. APPLY A THIN PUTTY COAT TO ALL GWB SURFACES. ALL EXISTING DRYWALL OR PLASTER AREAS (INCLUDING EXISTING CORNER BEADS) ARE TO BE REPAIRED, TAPED SKIMMED AND FINISHED ALONG WITH NEW DRYWALL. DRYWALL CONTRACTOR SHALL RE-TOUCH FINISH AS NECESSARY AFTER FIRST COAT OF PAINT AND PRIOR TO FINAL POINT.

3 PAINTED DRYWALL SHALL RECEIVE ONE PRIMER COAT AND TWO FINISH COATS OF MANUFACTURER'S HIGHEST PREMIUM BRAND PRODUCT(S). REFER TO BUILDING STANDARD FINISHING NOTES FOR PAINT TYPES, FINISHES AND COLOR SPECIFICATIONS. DRYWALL TO RECEIVE FRP BOARD, WALL COVERING AND/OR VENEER SHALL RECEIVE ONE COAT OF SEALER PRIMER. DOOR FRAMES SHALL RECEIVE ONE COAT OF PRIMER AND TWO COATS OF SEMI-GLOSS



ARCHITECTURE PLAN

TYP.-WINDOW SILL HIGHT 44" MAX. WINDOW OPENING 20"W X 24"H & THE TOTAL SQ. FT. OF THE OPENING MUST BE 5.7 SQ. FT.



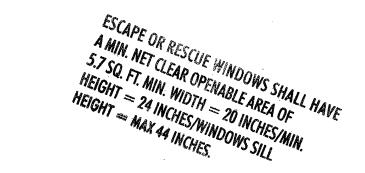
PLUMBING FIXTURES SHALL BE CONSTRUCTED OF DENSE, DURABLE, NON-ABSORVENT MATERIALS & SHALL HAVE SMOOTH, IMPERVIOUS SURFACES, FREE 2X6@16" O.C. W/ Nailad DEPPlate-3/8" WALL SHEATHING 6 and 12) Propplate-FROM UNNECESSARY CONCELEADED FOULING? SURFACES.

> ALL FIXTURES SHALL CONFORM IN QUALITY & DESIGN TO NATIONALLY RECOGNIZED APPLICABLE STANDARDS ACCEPTABLE TO THE ADMINISTRATIVE AUTHORITY. ALL PORCELAIN ENAMEL SURFACES ON PLUMBING FIXTURES SHALL BE ACID REISTANT. WATER CLOSET SEATS SHALL BE OF SMOOTH NON-ABSORBENT MATERIALS & SHALL BE PROPERLY SIZED FOR THE WATER BOWL TYPE.

BATHTUB & SHOWER ENCLOSURES SHALL BE FINISHED PER 2710 W/ CERAMIC TUB. OR A LISTED ENCLOSURE TO A HEIGHT OF 72" ABOVE THE DRAIN PER R702.4 & R 1307.2

FIBER CEMENT BOARD OR GLASS MATERIAL GYPSUM BACKERS FOR TILE WALLS IN THE SHOWER AND/OR TUB PER IRC-2006 AMENDMENTS R 702.4.2





or inline

SEE ELECTRICAL PLAN

W/ 1/2" GWB EA SIDE

W/1/2" GWB EA SIDE

2X6@24" O.C. W/ INTERIOR NON BEARING WALL

40 GAL WATER HEATER

SEE ELECTRICAL PLAN

SEE ELECTRICAL PLAN

SEE ELECTRICAL PLAN

UNDER COUNTER REFRIG

SEE ELECTRICAL PLAN

SEE ELECTRICAL PLAN

3068 SC (CUSTOM)

3068 SC (20 MIN FIRE RATED)

2-2668 FRENCH DOOR 56.

SEE MECHANICAL PLAN

WASHER

MICROWAVE

EXHAUST FAN

LAVATORY

3068 SC

3068 SC

SELF CLOSURE

5050 XO (LOW-E)

4050 XO (LOW-E) DOUBLE PANE

4030 XO (LOW-E)

DOUBLE PÂNE

DOUBLE PANE

TOILET

GAS - SEE PLUMBING PLAN

FURNACE SEE PLUMBING PLAN

# IECC CALCULATION

THIS PROJECT COMPLY W/ IECC 502.2.4 FOR WINDOWS & DOORS FOR ENERGY CONSERVATION - ENERGY EFFICIENCY - SECT. N 1102 BUILDING ENVELOPE.

SEE MECH. PLAN

SEE MECH. PLAN

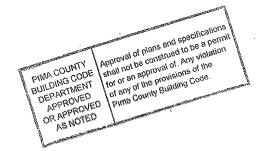
R 30

R 11

MT'L WINDOW-DOUPLE PANE EXTERIOR DOOR CEILING

WALLS (4" W)

THE SOLAR HEAT GAIN COEFICIENT SHGC MIN VALUE OF 0.40 FOR ALI DOORS / WINDOWS PER N 1102.2 IRC-2006 (U=0.75 MAX)



OWNER/DEVELOPER FENSTER KENNETH & VINE MARY A JT/RS

814 W CHULA VISTA RD

TUCSON AZ 85704-4215

JOB. NO. 96-2k9 (B) STAR DATE JUNE 2009

J.A.C.A. DESIGN L.L.C.

DRAFTING SERVICES TUCSON, ARIZONA www.jacadesigndrafting.com CELL(520) 808-4052 - FAX (520) 616-0200

MP-2 MECHANICAL PLAN E-01 ELECTRICAL PLAN GN-1 GENERAL NOTES GUEST QUARTER ADDITION TO EXISTING RESIDENCE 814 WEST CHULA VISTA ROAD
TUCSON. ARIZONA 85704
Parcel 102-04-0920
CASAS ADOBES ESTATES LOT 448
Docket 11478, Page 3219
Book 13, Page 76
Township 13S, Range 13E, Section
SHEET NO.

S-01 SITE PLAN A-01 FLOOR PLAN

A-04 SECTIONS

A-03 FRAMING PLAN

A-05 ELEVATIONS INCLUSIVE HOMES

MP-1 PLUMBING PLAN

OF

A-02 FOUNDATION PLAN

SH.

POOR ARCHITECTURE IS NOT THE SAME AS ARCHITECTURE FOR THE POOR

# FUTURE GRAY WATER COLLECTION

ALL NEW SINGLE FAMILY RESIDENCE AND DUPLEX DWELLING UNITS SHALL INCLUDE

EITHER A SEPARATE MULTIPLE OUTLET OR A DIVERTED VALVE, AND OUTSIDE "STUB-OUT" INSTALLATION ON CLOTHES WASHING MACHINE HOOK-UPS, TO ALLOW SEPARATE DISCHARGE OF GRAY WATER FOR DIRECT IRRIGATION.

ALL NEW SINGLE FAMILY RESIDENCE DWELLING UNITS SHALL INCLUDE A BUILDING DRAIN OR DRAINS FOR LAVATORIES, SHOWERS, AND BATHTUBS, SEGREGATED FROM DRAINS FOR ALL OTHER PLUMBING FIXTURES. AND CONNECTED A MINIMUM OF THREE FEET FROM THE LIMITS OF THE FOUNDATION, TO ALLOW FOR FUTURE INSTALLATION OF A DISTRIBUTED GRAY WATER

ALL GRAY WATER SYSTEMS SHALL BE DESIGNED AND OPERATED ACCORDING TO THE PROVISIONS OF THE APPLICABLE PERMIT AUTHORIZED BY ADEQ UNDER THE ARIZONA ADMINISTRATIVE CODE, TITLE 18, AND CHAPTER 9.

FUTURE SOLAR WATER HEATER SYSTEM

FUTURE - SOLAR WATER HEATER SYSTEM, OR FUTURE INSTALLATION PREPARATION WITH ONE OF THE FOLLOWINGS CONTROL AND 3/4" PIPING FOR WATER ROOFTOP TERMINATION 3" METALLIC SLEEVES, OR AN ACCESSIBLE ATTICE OVER THE WATER

FUTURE RESIDENTIAL PHOTO VOLTAIC

PROVIDE A SITE PKAN SHOWING THE BEST SPACE AVAILABLE FOR ACCOMMODATING PHOTO VOLTAIC (PV) EQUIPMENT (METER, DISCONNECT & INVERTED) WITH A MINIMUM AREA OF 4 SQUARE FEET

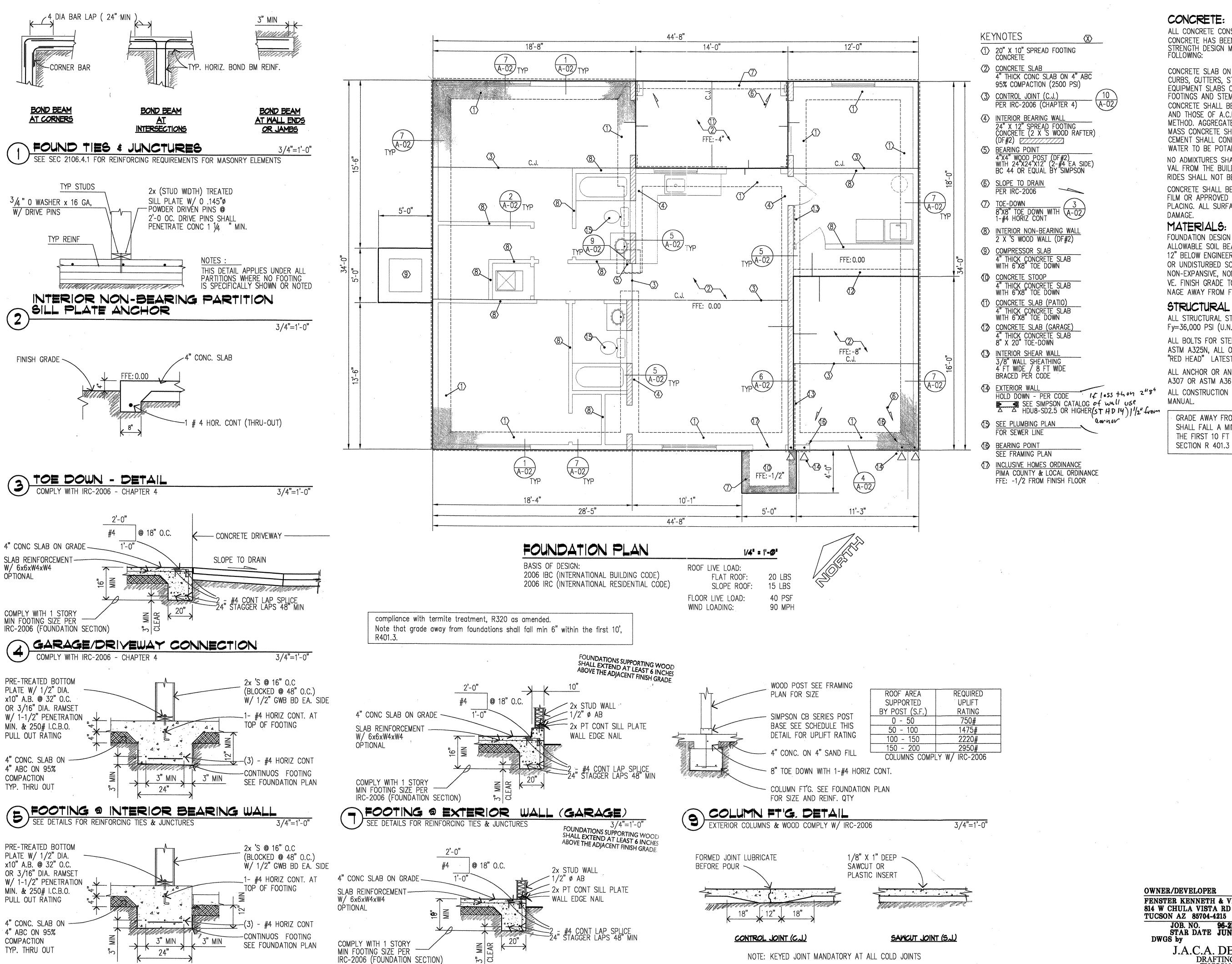
LOCATE THE PV EQUIPMENT ADJACENT TO THE ELECTRIC SERVICE PANEL IF FEASIBLE OR ON A WALL CLOSE TO THE PROPOSED COLLECTOR PANEL SPACE

SHOW ON THE SITE PLAN THE BEST ROOF SPACE AVAILABLE TO ACCOMMODATE PV SOLAR COLLECTOR PANELS. PROVIDE A ROOF STRUCTURE DESIGNED FOR THE ADDITIONAL COLLECTOR DEAD LOADING (TYPICALLY 4 LBS/SF)

SHOW A MINIMUM 3,800 VOLT-AMPERE PV ELECTRICAL LOAD ENTRY ON THE SERVICE LOAD CALCULATION. THIS LOAD IS CONTINUOUS AS WITH HEATING AND COOLING LOADS

SHOW AN ELECTRICAL PANEL SCHEDULE WITH A 240 VOLT CIRCUIT BREAKER SPACE LABELED "RESERVED FOR PHOTO VOLTAIC"

SEE WEB SITE FOR MORE INFORMATION FOR REQUIRENMENTS http://www.energysavers/gov/your\_homes/electricity/index.cfm/mytopic=10390



3/4"=1'-0'

CONCRETE CONTROL JOINTS

COMPLY WITH SECT 1906.4 AND CHAPTER 19

3/4"=1'-0"

, footing @ exterior wall

SEE DETAILS FOR REINFORCING TIES & JUNCTURES

FOOTING @ INTERIOR BEARING WALL

SEE DETAILS FOR REINFORCING TIES & JUNCTURES

CONCRETE:

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO IRC-2006 CONCRETE HAS BEEN DESIGNED ACCORDING TO ACI 318-89 WITH THE STRENGTH DESIGN METHOD, INSTALLED CONCRETE SHALL CONFORM TO THE

> 28 DAY F'C 2800 PSI 2500 PSI 2500 PSI

CONCRETE SLAB ON GRADE CURBS, GUTTERS, STAIRS ON GRADE **EQUIPMENT SLABS ON GRADE** FOOTINGS AND STEM WALLS

CONCRETE SHALL BE PROPORTIONED ACCORDING TO THESE REQUIREMENTS AND THOSE OF A.C.I. 318-95 WITH TYPE II CEMENT FOR THE STRENGTH DESIGN METHOD. AGGREGATE SIZES ARE 1.0 INCHES MAXIMUM FOR FOOTINGS. OTHER MASS CONCRETE SHALL HAVE MAXIMUM AGGREATE SIZE OF 3/4 INCH. CEMENT SHALL CONFORM TO C150. AGGREGATE ACCORDING TO C33 AND WATER TO BE POTABLE.

NO ADMIXTURES SHALL BE USED WITHOUT SPECIFIC PRIOR WRITTEN APPRO-VAL FROM THE BUILDING OFFICIAL. ADMIXTURES USING ANY FORM OF CHLO-RIDES SHALL NOT BE USED.

CONCRETE SHALL BE CURED IN PLACE BY ENCLOSING WITH POLYETHYLENE FILM OR APPROVED EMULSION SPRAY FILM FOR AT LEAST 10 DAYS AFTER PLACING. ALL SURFACES OF THE CONCRETE SHALL BE PROTECTED FROM DAMAGE.

MATERIALS:

FOUNDATION DESIGN BASED ON 1500 PSF ALLOWABLE SOIL BEARING PRESSURE AT MINIMUM 12" BELOW ENGINEER CERTIFIED COMPACTED PAD OR UNDISTURBED SOIL. SOIL IS ASSUMED TO BE NON-EXPANSIVE, NON-CORROSIVE, NON-COLLAPSI-VE. FINISH GRADE TO PROVIDE ADEQUADE DRAI-NAGE AWAY FROM FOUNDATION SYSTEM.

# STRUCTURAL STEEL:

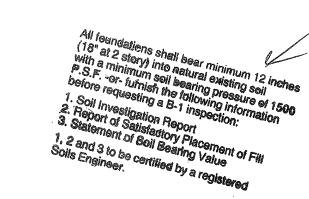
ALL STRUCTURAL STEEL SHALL HAVE ASTM A36 Fy=36,000 PSI (U.N.O.)

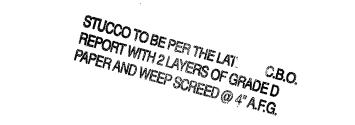
ALL BOLTS FOR STEEL TO STEEL CONN. SHALL BE ASTM A325N, ALL OTHER BOLTS SHALL BE PHILLIPS "RED HEAD" LATEST EDITION

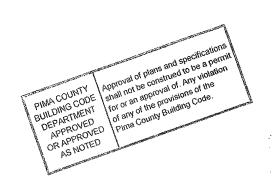
ALL ANCHOR OR ANCHOR BOLTS SHALL BE ASTM A307 OR ASTM A36 (U.N.O.)

ALL CONSTRUCTION PER LATEST ASIC STEEL CONST. MANUAL.

GRADE AWAY FROM FOUNDATION SHALL FALL A MIN 6" WITHIN THE FIRST 10 FT PER IRC-2006 SECTION R 401.3







OWNER/DEVELOPER FENSTER KENNETH & VINE MARY A JT/RS

TUCSON AZ 85704-4215 JOB. NO. 96-2k9 (B) STAR DATE JUNE 2009

J.A.C.A. DESIGN L.L.C.

DRAFTING SERVICES

TUCSON, ARIZONA

www.jacadesigndrafting.com

A-05 ELEVATIONS INCLUSIVE HOMES MP-1 PLUMBING PLAN MP-2 MECHANICAL PLAN E-01 ELECTRICAL PLAN GN-1 GENERAL NOTES GUEST QUARTER ADDITION TO EXISTING RESIDENCE 814 WEST CHULA VISTA ROAD
TUCSON. ARIZONA 85704
Parcel 102-04-0920
CASAS ADOBES ESTATES LOT 448
Docket 11478, Page 3219
Book 13, Page 76
Township 13S, Range 13E, Section

DRAWING INDEX: S-01 SITE PLAN A-01 FLOOR PLAN

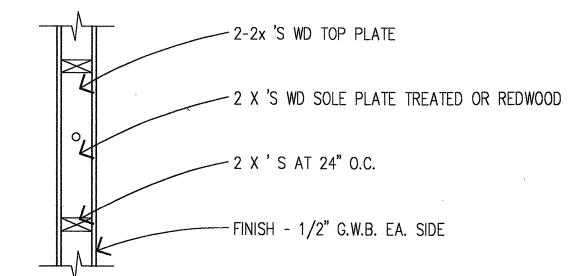
A-04 SECTIONS

A-02 FOUNDATION PLAN A-03 FRAMING PLAN

CELL(520) 808-4052 - FAX (520) 616-0200 POOR ARCHITECTURE IS NOT THE SAME AS ARCHITECTURE FOR THE POOR

OF

NO.



INTERIOR NON-BEARING WALL

3/4" = 1'-0" 16d AT 24" EA SIDE — BLOCKING AT 48" O.C. VERT. WITH 2-16d EA. SIDE BLKG AT 48"~ - SILL BOLT TYP. 16d AT 12" O.C. VERT. (STAGGERED) TYP. 16d AT 24" STAGGER — 2 X STUD WALL 16d AT 24" PLAN AT PART **STAGGERED** 

BOLTS IN WOOD SHALL BE NOT LESS THAN 7 BOLT DIAM. FROM ENDS AND 4 BOLT DIAM. FROM EDGES

PLAN AT CORNER

TYP 5

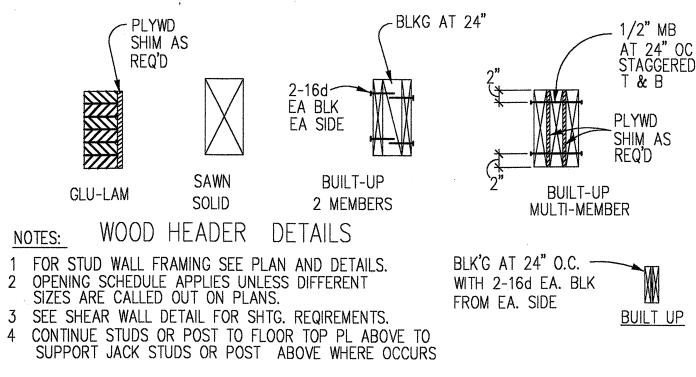
# wood fram's a wall intersection

2x 'S SOLE PLATE TREATED OR REDWOOD WITH 1/2" DIA. A.B. AT 32" O.C. WITH 2" DIA. MIN WASHER, 90 BEND CAST IN PLACE & 7" MIN. EMBEDMENT INTO CONC. — 2x 'S AT 16" O.C. - 2 - 2x 'S TOP PLATE --- R-19 BATT INSULATION - WALL (MIN) — INTERIOR FINISH - 1/2" G.W.B. - EXTERIOR FINISH - 1 COAT SYSTEM MIN 3/8" STUCCO ON 1" GA GALV WWF LATH ON 1" T&G DOWN FOAM ON 3/8" OSB SHEATHING (SEE REPORT)
P.I. 31/16, 8d AT 6" OC AT EDGES AND 12" OC AT INTERAL SUPPORTS

1.PROVIDE SIMPSON H2.5 TOP & BTM PLATES TO EA. STUD. IF OUT TO OUT OF ROOF EDGES EXCEEDS 22' AT UNENCLOSED AREAS USE 2 ANCHORS RATED AT 340# MIN. & TYPE THAT ENGAGES STUD & PLATE. (PLATE TO STUD ANCHORS MAY BE OMITTED IF

NAILING PER CODE RESIDENTIAL CODE 2006 EDITION

# PLYWOOD SHEATHING IS USED EXTERIOR SHEAR WALL



CONTROLL WHOM CHOPS ON 1 CS	MBOVE WHERE OCCOR	.5						
TABLE 2308.9.6 HEADER & GIRDER SPANS FOR EXTERIOR BEARING WALLS								
F.A. SIMPSON A34N TYP.	MIN PLATE SPLICE	2-2x TOP PLATE CO W/ 16d AT 12" OC	NT					
	48" WITH 6-16d	PROVIDE POST TO						
2 X STUDS	-HEADER	ALIGN W/ POST ABO H 2.5 EA SIDE	JVE					
AT 16" O.C.	-2-16d	TI Z.O EN GIDE						
	16d AT 12" O.C. VERT. HEADER SCHEDULE							
FIFTH	STAGGERED	BUILT UP	SPAN					
/	-DOUBLE STUD WHEN	2-2 X 6	UP TO 6'-0"					
	OPENING EXCEEDS 48"	2-2 X 8	6'-1" TO 8'-0"					
	-JACK STUD ALL	2-2 X 10	8'-1" TO 10'-9' 11'-0" TO 20'-0"					
		5-1/8" X 12" GLB	11-0 10 20-0					

HEADER @ BEARING WALLS

TABLE R 502.5.1 (1) FOR EXTERIOR BEARING WALL (30 PSF GROUND SNOW LOAD - TYP)

3/4"=1'-0"

# BEAM TO WOOD CONNECTION

BEAM

SIMPSON PC44 AT 4x BM & 4x4 COLUMN - COLUMN SIMPSON PC66 AT 6x BM & 6x6 COLUMN SIMPSON CC5-1/4-6 AT 5 1/8 GLM 6x COLUMN FOR OTHER SIZES REFER SIMPSON CATALOG COLUMN CAP TO MATCH BEAM AND COLUMN SIZES.

COLUMN CAP AT END COLUMN

SIMPSON EPC44 AT 4x BM & 4x4 COLUMN

19

19

NOTES

WALL FRAMING PLAN

BUILT-UP ROOF 2-15#, 1-30# FELT HOT MOPPED ON 1/2" OSB ( OR EQUAL ) & REFLEC ALUM PAINT

GLUE-LAM BEAM (OPTIONAL)

SIMPSON IUT SERIES JOIST HANGER (OR EQ)

IPN WITH WEB STIFFENERS AT JOIST HANGER

SEE FRAMING FOR SIZE

WOOD BEAM (DF#2) FRAMING PLAN FOR SIZE

3/4" = 1'-0"

3/4"=1'-0'

11-7/8" TJI (IPN) SERIES 230 (MIN) @ 24" O.C.

FIELD | STUD & BLOCKING

ANCHOR BOLT TO CONCRETE BELOW

2 X PLATE W/ 1/2" Ø A.B.'S

2 X 'S

NAILING | NAILING | SIZE & ADJOINING EDGES

SHEARWALL (SW) SCHEDULE

6" O.C. | 12" O.C.

SILL PLATE ATTACHMENT

(1) PROVIDE 2 -2 X STUDS OR POST PER HOLDOWN SCHEDULE AT ENDS OF ALL

IPN / GLUE LAM CONNECTION (TYP)

SHEATHING | EDGE

NAILING TO WOOD

W/16d NAILS @

- 6" O.C.

GLUED-LAMINATED BEAMS (GLM) SHALL BE DOU-

AND 24F-V8 AT CANTILEVERED OR CONTINUOUS

BEAMS WITH THE FLOLLOWING MINIMUM PROPER-

LAR) = 650 PSI, e= 1,800,000 PSI.

- COLUMN

BEAM

TIES: fb= 2400 PSI, fv= 190 PSI, fc (PERPENDICU-

GLAS FIR, COMBINATION 24F-V4 SIMPLE SPAN BEAMS

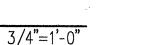
MARK

SHEARWALLS

BE GALVANIZED.

SIMPSON EPC66 AT 6x BM & 6x6 COLUMN SIMPSON ECC5-1/4-6 AT 5 1/8 GLM 6x COLUMN COLUMN CAP AT CENTER COLUMN

EXPOSED EXTERIOR NAILS AND HARDWARE SHALL



# ROOF FRAMING PLAN

ROOF MATERIAL BUILT-UP ROOF 2-15#, 1-30# FELT HOT MOPPED ON 1/2" OSB ( OR EQUAL ) & REFLEC ALUM PAINT

WALL FINISH MATERIAL

(11-7/8" TJI (IPN) SERIES 210 (MIN) @ 24" O.C.) 11-7/8" TJI (IPN) SERIES 210 (MIN) @ 24" O.C.

STUCCO - INSTALLED PER MANUF. SPECS

# 1/4" =1'-0"

A-04

KEYNOTES

1) WOOD HEADER (DF#2) 4

3 1/2" OSB ROOF SHEATHING PER CODE

2x6@16" O.C.(DF#2)
INTERIOR BEARING WALL

A-03

6 2X6@24" O.C.(DF#2)
INTERIOR NON-BEARING WALL

② 2 X 'S BLOCKING FOR EXHAUST FAN (DF#2)

(5) 2X4@24" O.C.(DF#2) INTERIOR NON-BEARING WALL A-03

(8) 6X8 WOOD BEAM (DF#2)
CONNECTED TO IPN RAFTER
A-03

9 4X4 WOOD POST (DF#2)
WITH PC44 CONNECTION OR
EQUAL - SEE SIMPSON
CATALOG

2-2X6 WOOD POST (DF#2)
BEARING POINT (ATTACHED)
FOR BEAM SUPPORT

DOUBLE JOIST (RIM JOIST)
PER PLANS

DOWNSPOUT/CANALE INSTALL PER MANUF. SPECS

(3) ITT 11.78 JOIST HANGER BY

INSTALL PER MANUF. SPECS

19 UNITS - INSTALL PER CODE

WOOD BOX (DF#2) W/
2 X 'S RAFTER - PER CODE 4-03

1/2" CEMENT BOARD OR EQUAL

SIMPSON OR EQUAL

1/2" CDX PLYWOOD CRICKET - PER CODE

W/ MID BLOCKING

SEE ARCH. PLAN SEE MECH. PLAN

(9) BATHROOM MATERIAL

PER CODE

(B) CEILING MATERIAL
1/2"GWB ANTI-SAGGING OR

② 3/8" OSB WALL SHEATHING INSTALL PER CODE

DROPPED CEILING

SEE SCHEDULE

(2) 2X6@16" O.C. (DF#2) EXTERIOR WALL

143054 X 1/150 NET 9.50 S& FT PROVIDE 6"X12" (0.5) = 192hirs, SEE KEYNOTE (15)

ROOK VENT AND

WOOD AND LUMBER PRODUCTS: ALL WOOD CONSTRUCTION SHALL CONFORM TO

INTERNATION RESIDENTIAL CODE 2006 DOUGLAS FIR LARCH N # 2

ALL STRESS GRADE LUMBER SHALL COMPLY WITH THE APPOPIATE SPECI-FICATIONS AS PUBLISHED IN THE CURRENT EDITION OF THE W.C.L.A. MANUAL AND ALL PIECES OF LUMBER, IN PLACE, SHALL BEAR THE APPROVAL STAMP OF THE W.C.L.A.

SPECIFICATIONS FOR LUMBER AND WOOD PRODUCTS: FRAMING LUMBER, S4S (2x4 - 4x16): SIMPSON STRONG-TIE

HOLES FOR NAILS, WHERE NECCESSARY TO PREVENT SPLITTING, SHALL BE PREDRILLED AT A SMALLER DIAM. THAN NAILS.

# **ROUGH HARDWARES:**

SOLID SAWN LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) OR THE COAST LUMBER INSPECTION BUREAU (NCLIB). ALL SOLID SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPRO-VED GRADING AGENCY. SOLID SAWN LUMBER SHALL HAVE THE FOLLOWING MINUMUM GRADES.

MATERIAL: 2x4 STUDS AND STUD GRADE OR BETTER DOUGLAS FIR OR HEM-FIR BLOCKING. STUD GRADE OR BETTER 2x6 STUDS AND DOUGLAS FIR OR HEM-FIR BLOCKING. JOISTS, TOP PLATES, DOUGLAS FIR # 2 AND BLOCKING.

DOUGLAS FIR # 2 4x BEAMS AND POSTS DOUGLAS FIR # 2 6x BEAMS AND POSTS ALL STRUCTURAL FRAMING AND CONNECTIONS

SHALL BE PER IRC-2006. SPECIFIED HARDWARE SHALL BE SIMPSON STRONG-TIE INSTALLED PER MANUFACTURER'S RECOMMENDA-

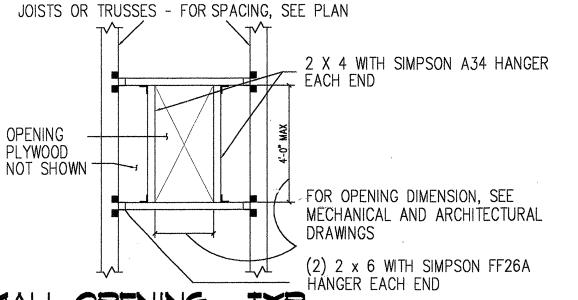
ALL WALLS NOT SOLIDILY SHEATHED OR CONTAIN-ING SHEAR PANELS SHALL HAVE A 1x6 DIAGONAL LET-IN OR APPROVED STEEL "X" BRACE AT THE ENDS AND AT NOT MORE THAN 25' ON CENTER. BRACE SHALL EXTEND FROM BOTTOM OF LOWEST PLATE TO TOP OF UPPER PLATE.

UNLESS SHOWN OTHERWISE ON THE PLANS, PROV'D THE FOLLOW'G TRIMMERS AT BEAMS.

> SINGLE TRIMMER FOR ALL 4x8 AND SMALLER BEAMS AND HEADERS.

DOUBLE TRIMMERS FOR ALL 4x12 AND SMALLER BEAMS AND HEADERS. TRIPLE TRIMMERS FOR ALL BEAMS AND HEAD'R

PROV'D DOUBLE STUDS (MIN.) ALL GIRDER TRUSSES, BEAMS, AND HEADERS, (U.N.O.)



SMALL OPENING - TYP COORDINATE WITH MECHANICAL CONTRACTOR FOR EXHAUST FAN 3/4" = 1'-0"

\_\_\_\_2 X 6 AT 16" O.C. -1/2" GYP. WALL BOARD EA SIDE (SEE PLANS) ---2 - 2 X 6 TOP PLATE  $\sim$ 2 X 6 SOLE PLATE TREATED OR REDWOOD WITH 5/8"DIA. A.B. AT 48" O.C. WITH 2" DIA. MIN WASHER, 90 BEND CAST IN PLACE & 8" MIN. EMBEDMENT INTO CONCRETE ( OPT. RAMSET @ 32" O.C.) PROVIDE SIMPSON H2.5 TOP & BOTTOM PLATES TO EA. STUD. IF OUT TO OUT OF ROOF EDGES EXCEEDS 22" AT ENCLOSED AREAS USE 2 ANCHORS RATED AT 340# MIN. & TYPE THAT ENGAGES STUD & PLATE. (PLATE TO STUD ANCHORS MAY BE OMITTED IF PLYWOOD SHEATHING IS USED, CONSULT THEG.C.)

interior bearing wall

1 COAT SYSTEM MIN 3/8" STUCCO ON 1" GA GALV WWF LATH ON 3/8" OSB SHEATHING (SEE REPORT) 6x6 WOOD POST X · 2x BLOCKING 2" WIDER @ BOTTOM OF COLUMN 6x6 WOOD POST

AT EXTERIOR STUCCO FINISH PROVIDE EXPANSION JOINTS AT 20'-0" O.C. MAX

BUILT-UP COLUMN SEE FRAMING PLAN FOR SPECIFICATIONS

> OWNER/DEVELOPER FENSTER KENNETH & VINE MARY A JT/RS 814 W CHULA VISTA RD TUCSON AZ 85704-4215

JOB. NO. 96-2k9 (B) STAR DATE JUNE 2009

DRAFTING SERVICES TUCSON, ARIZONA www.jacadesigndrafting.com CELL(520) 808-4052 - FAX (520) 616-0200

J.A.C.A. DESIGN L.L.C. CASAS ADOBES ESTATES LOT 448 POOR ARCHITECTURE IS NOT THE SAME AS ARCHITECTURE FOR THE POOR

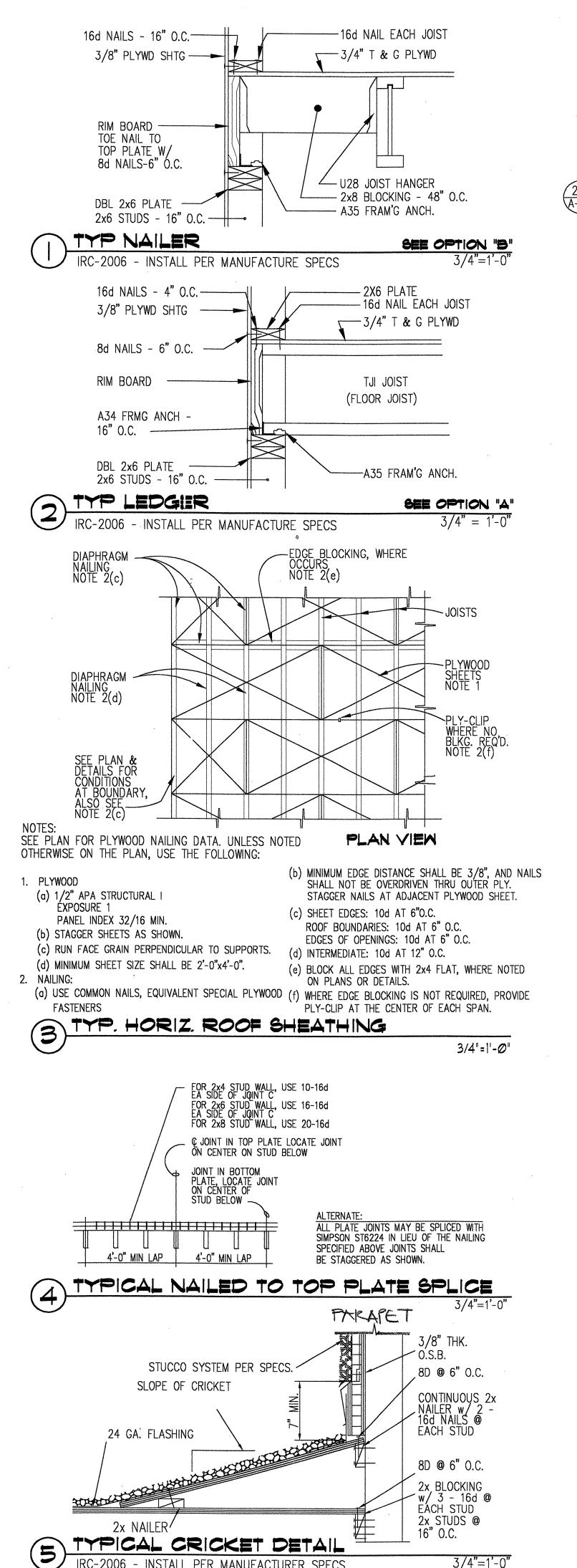
3/4"=1'-0"

MP-2 MECHANICAL PLAN E-01 ELECTRICAL PLAN GN-1 GENERAL NOTES GUEST QUARTER ADDITION TO EXISTING RESIDENCE Docket 11478, Page 3219
Book 13, Page 76
Township 13S, Range 13E, Section SHEET NO.

A-02 FOUNDATION PLAN A-03 FRAMING PLAN A-04 SECTIONS A-05 ELEVATIONS INCLUSIVE HOMES MP-1 PLUMBING PLAN

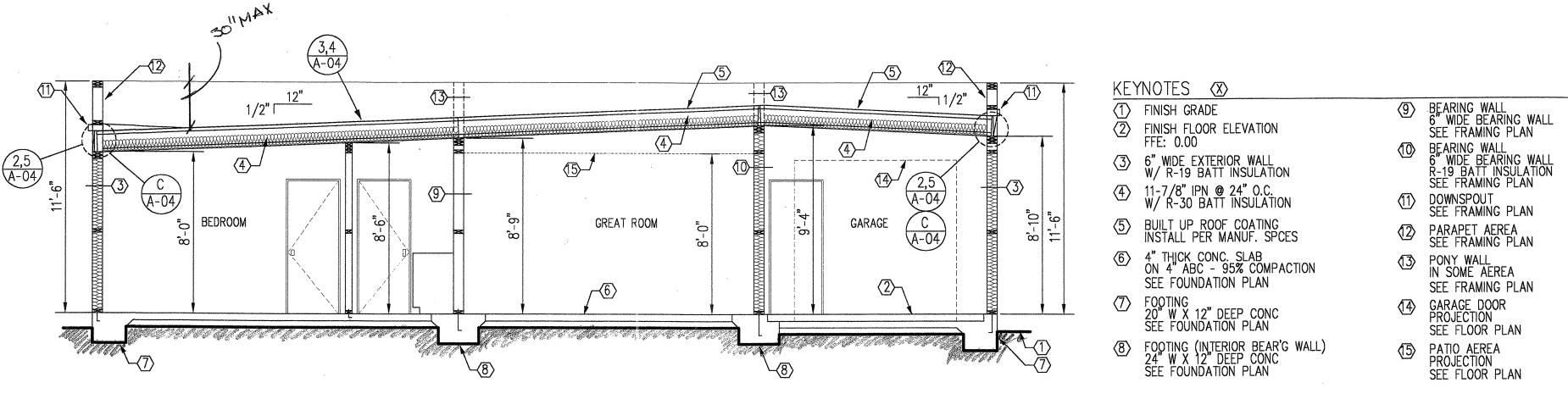
IRC-2006 & LOCAL AMENDMENTS

3/4" = 1'-0"



IRC-2006 - INSTALL PER MANUFACTURER SPECS

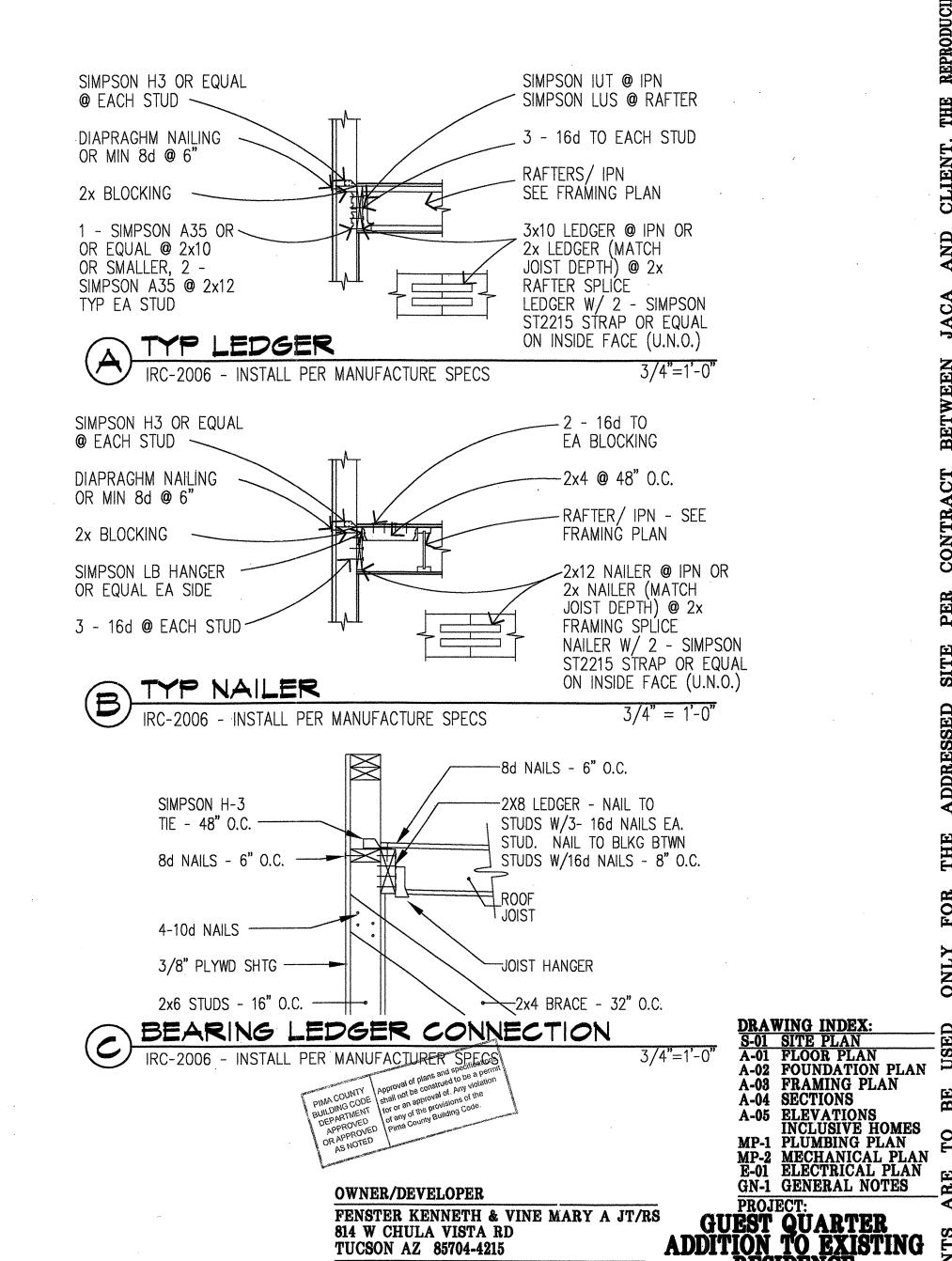
3/4"=1'-0"



SECTION "A"

1/4"=1'-0"

THIS PROJECT WILL COMPLY WITH IRC-2006 & LOCAL AMENDMENTS



TUCSON AZ 85704-4215

JOB. NO. 96-2k9 (B) STAR DATE JUNE 2009

DRAFTING SERVICES

TUCSON, ARIZONA

www.jacadesigndrafting.com CELL(520) 808-4052 - FAX (520) 616-0200

POOR ARCHITECTURE IS NOT THE SAME AS ARCHITECTURE FOR THE POOR

RESIDENCE

Docket 11478, Page 3219 Book 13, Page 76

Township 13S, Range 13E, Section SHEET NO.

STAR DATE JUNE 2009
S by

J.A.C.A. DESIGN L.L.C.

STAR DATE JUNE 2009
S14 WEST CHULA VISTA ROAD
TUCSON. ARIZONA 85704
Parcel 102-04-0920
CASAS ADD BESTATES LOT 448

EXTERIOR ACCESSIBLE ROUTE

THERE SHALL BE AT LEAST ONE EXTERIOR ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCE. THIS ROUTE MAY ORIGINATE FROM THE CARPORT, DRIVEWAY, OR PUBLIC STREET OR SIDEWALK. THE SLOPE OF THIS ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCE SHALL NOT EXCEED ONE-FOOT VERTICAL RISE PER TWENTY FEET HORIZONTAL DISTANCE (1:20), UNLESS A RAMP IS CONSTRUCTED COMPLYING WITH THE 2006 INTERNATIONAL RESIDENTIAL CODE; (RAMPS MAY HAVE A GRADE)

ACCESSIBLE ENTRANCE

THERE SHALL BE AT LEAST ONE NO-STEP, ACCESSIBLE ENTRANCE TO THE HOME. THIS ENTRANCE MAY BE AT THE FRONT, BACK, SIDE, GARAGE, OR CARPORT OF THE HOME, BUT MAY NOT BE THROUGH A BEDROOM. THE DOOR OF THIS ENTRANCE SHALL BE 32" WIDE MINIMUM AND SHALL MEET THE DOOR HARDWARE REQUIREMENTS DESCRIBED IN THIS PAMPHLET.

INTERIOR ACCESSIBLE ROUTE

AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL SPACES AND ELEMENTS, WHICH ARE A PART OF THE ACCESSIBLE FLOOR OF THE HOME. EXCEPTIONS TO THE INTERIOR ACCESSIBLE ROUTE PROVISION INCLUDE A RAISED OR SUNKEN PORTION OF A LIVING, DINING, OR SLEEPING ROOM. THIS ROUTE SHALL NOT PASS THROUGH BATHROOMS, CLOSETS, OR SIMILAR SPACES. AS PER EXISTING CODE. THIS ROUTE IS REQUIRED TO BE 36" W. MIN

#### BATHROOM WALL REINFORCEMENT

IN BATHROOMS ON THE ACCESSIBLE ROUTE, REINFORCEMENT SHALL BE INSTALLED TO ALLOW THE FUTURE INSTALLATION OF GRAB BARS ON WALLS ADJACENT TO THE TUB AND TOILET. IN ADDITION, REINFORCEMENT SHALL BE INSTALLED IN SHOWER COMPARTMENTS FOR FUTURE INSTALLATION OF GRAB BARS. THIS REINFORCEMENT SHALL BE INSTALLED FLUSH WITH THE STUDS AND AT THE FOLLOWING LOCATIONS:

TOILET: 33" - 36" ABOVE THE FLOOR ON ALL ADJACENT WALLS. HORIZONTAL LENGTH OF REINFORCEMENT SHALL BE SUFFICIENT TO ALLOW A 42" GRAB BAR AND 24" REAR GRAB BAR. NOTE: NOTHING IN THE ORDINANCE REQUIRES THAT THE TOILET BE PLACED BY A SIDEWALL.

TUB: HORIZONTAL LENGTH REINFORCEMENT SHALL BE SUFFICIENT TO ALLOW FOR

A) BACK WALL: TWO BACKING REINFORCEMENTS, ONE BACKING REINFORCEMENT HORIZONTAL

POSITION 33" MINIMUM AND 36" MAXIMUM ABOVE THE FLOOR, AND ONE BACKING REINFORCEMENT 9" ABOVE THE RIM OF THE BATHTUB. EACH BACKING REINFORCEMENT SHALL BE 24" LONG MINIMUM AND SHALL BE 24" MAXIMUM FROM THE HEAD END WALL AND 12" MAXIMUM FROM THE FOOT END WALL.

B) FOOT END WALL: ONE BACKING REINFORCEMENT 24" LONG MINIMUM ON THE FOOT END WALL AT

C) HEAD END WALL: ONE BACKING REINFORCEMENT 12" LONG MINIMUM ON THE HEAD END WALL AT THE FRONT EDGE OF THE BATHTUB.

D) SHOWER COMPARTMENTS SHALL HAVE BACKING ON A MINIMUM

OF TWO WALLS, NOT TO INCLUDE ALL WALL REINFORCEMENTS SHALL BE CAPABLE OF RESISTING SHEAR AND BENDING FORCES OF A MINIMUM OF 250 POUNDS. REINFORCEMENT IS NOT REQUIRED AT THE LOCATION OF VANITIES, LINEN CLOSETS, AND PRE-MOLDED SHOWER/TUB SURROUNDS, OR IN A ROOM CONTAINING ONLY A SINK AND A TOILET, PROVIDED THAT THE ROOM DOES NOT CONTAIN THE ONLY SINK OR TOILET ON THE ACCESSIBLE FLOOR OF THE HOME.

THRESHOLDS

THRESHOLDS AT THE ACCESSIBLE ENTRANCE AND ALONG ACCESSIBLE ROUTES MAY BE 1/2 INCH HIGH MAXIMUM. CHANGES IN LEVEL WHICH EXCEED 1/4 INCH HIGH, SHALL BE BEVELED, WITH A SLOPE NOT STEEPER THAN ONE INCH RISE TO 2 INCH RUN (1:2).

## INTERIOR DOORS

DOORWAYS ON THE ACCESSIBLE ROUTE SHALL HAVE A CLEAR OPENING OF 30 INCHES WIDE MINIMUM. A 32" (2'-8") WIDE DOOR SATISFIES THESE REQUIREMENTS. THIS DOOR SHALL CONTAIN HARDWARE MEETING THE DOOR HARDWARE REQUIREMENTS DESCRIBED IN THIS PAMPHLET.

## DOOR HARDWARE

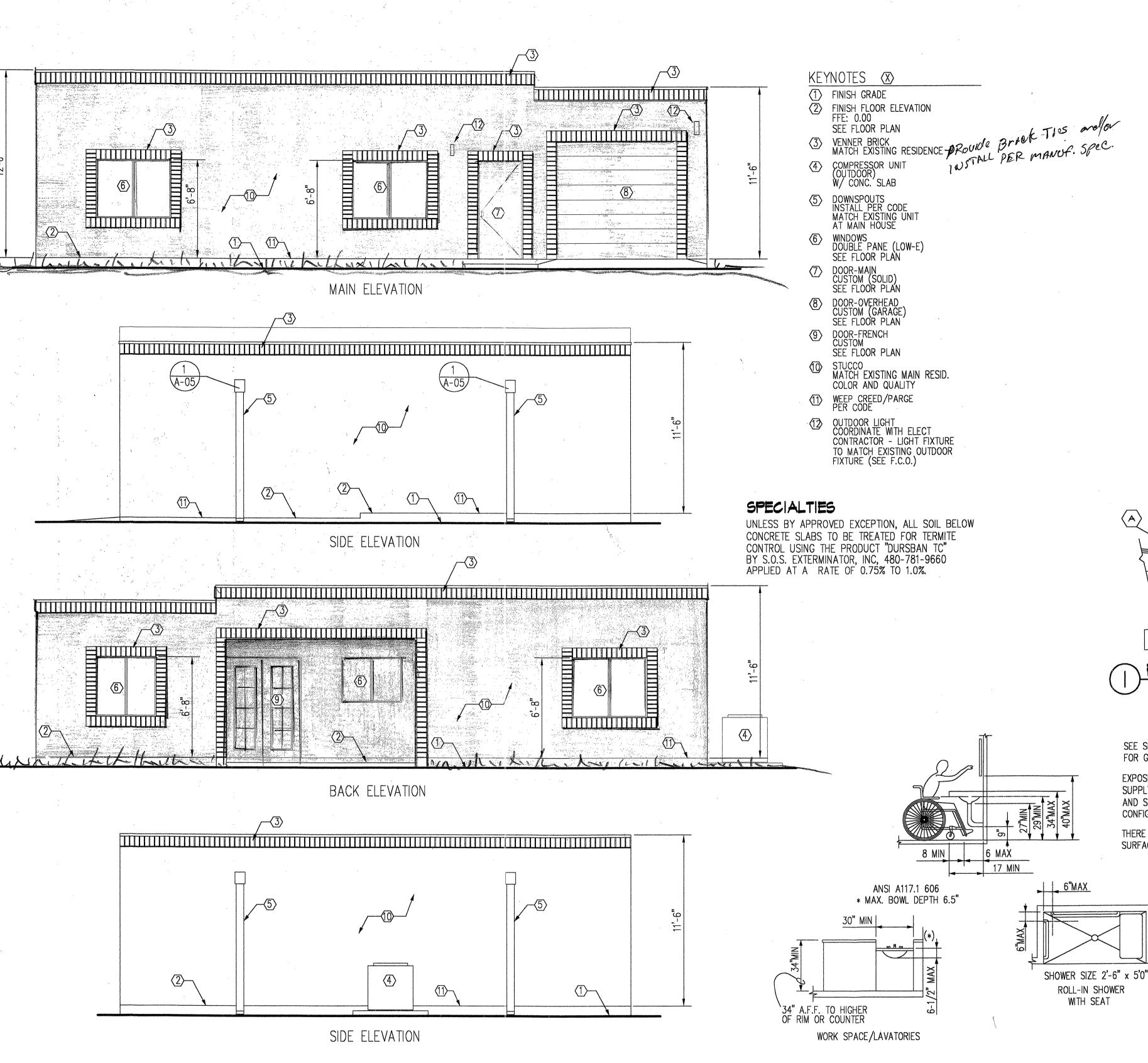
HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER HARDWARE SATISFIES THE REQUIREMENTS OF THIS PROVISION.

## ELECTRICAL

All light controls shall be placed no higher than 48", on center, above the floor.

Where practical, all electrical receptacles shall be placed no lower than 15, on center, above the floor. All thermostats shall be placed no higher than 48" on center, above the floor.

The exceptions to these provisions are as follows: 1. Electrical receptacles serving a dedicated use. 2. Appliance mounted controls or switches. 3. A single outlet where all of the following conditions are met.



ELEVATIONS 1/4" = 1'-0" TYP.-WINDOW SILL HIGHT 44" MAX. WINDOW OPENING 20"W X 24"H & THE TOTAL SQ. FT. OF THE OPENING MUST BE 5.7 SQ. FT. 42"MIN SHOWER PLAN VIEW 12"MAX 24"MAX

TOILET DISPENSER

ABOVE GRAB BAR

24"MIN

HANDICAP DETAILS

GRAB BAR AT

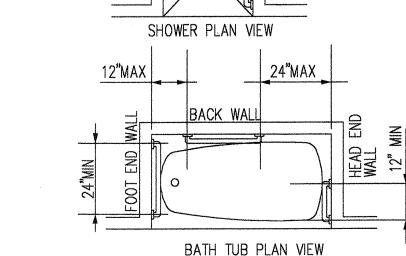
WATER CLOSET

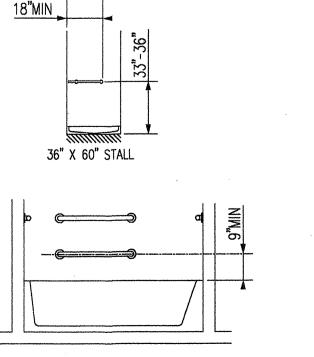
SIDE WALL

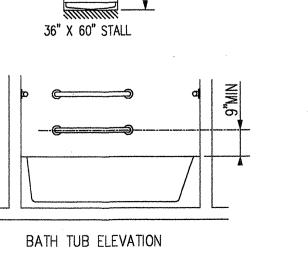
REAR WALL GRAB

36" MIN. WHEN WALL SPACE

PERMITS







3/4" = 1'-0"

www.jacadesigndrafting.com CELL(520) 808-4052 - FAX (520) 616-0200 POOR ARCHITECTURE IS NOT THE SAME AS ARCHITECTURE FOR THE POOR

OWNER/DEVELOPER

814 W CHULA VISTA RD TUCSON AZ 85704-4215

A-02 FOUNDATION PLAN FRAMING PLAN SECTIONS A-04 SECTIONS
A-05 ELEVATIONS
INCLUSIVE HOMES
MP-1 PLUMBING PLAN
MP-2 MECHANICAL PLAN
E-01 ELECTRICAL PLAN
GN-1 GENERAL NOTES

3/4"=1'-0"

FENSTER KENNETH & VINE MARY A JT/RS

GRAB BARS AT

SHOWER STALL

MOISTURE/THERMAL CONTROL

SEALING OF PENETRATIONS IN THE BUILDING ENVELOPE AND AT THE JUNCTION OF DISSIMILAR MATERIALS TO BE OF AN APPROVED TYPE AND INSTALLED TO

MANUFACTURERS WRITTEN SPECIFICATION

MINIMUM INSULATION VALUES TO BE:

R26 CEILING

R11 FRAME WALLS

WHERE ATTIC VENTILATION IS REQUIRED, THE NET

EAVE OR CORNICE. VENTILATION OPENINGS TO BE COVERED WITH A CORROSION RESISTANT MESH HAVING

A MESH OPENING LESS THAN 1/4". PROVIDE A

MINIMUM 1" CLEARANCE BETWEEN INSULATION AND

EXTERIOR SOFFITS REQUIRING STUCCO, TO BE APPLIED

ALL GYPSUM WALLBOARD USED AS A BASE FOR HARD

COMPARTMENTS SHALL BE OF WATER RESISTANT TYPE.

THIS PROJECT COMPLY W/ CHAPTER 6 FOR WALL

SURFACE FINISHES IN SHOWERS, TUBS OR WATER CLOSET

FOR FASTENER SCHEDULE FOR STRUCTURE MEMBERS SEE

FOR THICKNESS OF PLASTER SEE TABLE R 702.1 (1)

SHT MET'L REGELT - FLASH COUNTER FLASH

BUILT UP ROOF TO CONT. OVER SCUPPER AND APRON

 $\langle B \rangle$ 

CAULK AROUND SCUPPER AT OPNG

24 GA. ROOF HEADER WITH RECTANGULAR

24 GA. DOWNSPOUT SECURE TO WALL AT 48" O.C.

PREFAB SPLASH BLK.

24 GA. SCUPPER APRON

ROOF SCUPPER & DOWNSPOUTS

SEE SECTION 606 - LAVATORIES AND SINK FOR GENERAL NOTES AND SPECIFICATIONS

EXPOSED PIPES AND SURFACES - WATER

THERE SHALL BE NO SHARP OR ABRASIVE

SURFACES UNDER LAVATORIES OR SINKS

SUPPLY AND DRAINAGES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE

CONFIGURATED TO PROTECT AGAINST CONTACT

OVERFLOW

FOR PORTLAND CEMENT PLASTER .SEE TABLE 702.1. (3)

THIS PROJECT COMPLY W/ CHAPTER 7 FOR WALL COVERING

FOR GYPSUM PLASTER PROPORTIONS. SEE TABLE R 702.1 (2)

THIS PROJECT COMPLY W/ CHAPTER 8 FOR ROOF -CEILING CONSTRUCTION.

THIS PROJECT COMPLY W/ CHAPTER 9 -ROOF ASSEMBLIES

TO 1/2" MOISTURE RESISTANT GYPSUM WALLBOARD.

FREE AREA TO BE A MINIMUM OF 1/150 OF THE SPACE

TO BE VENTILATED OR 1/300 OF THE SPACE PROVIDED

THAT 50% OF THE VENTILATION AREA IS 3' ABOVE THE

INSURE WEATHER TIGHTNESS.

ROOF SHEATHING.

CONSTRUCTION.

TABLE R 602. 3 PAGE 104

GUEST QUARTER ADDITION TO EXISTING

Township 13S, Range 13E, Section

JOB. NO. 96-2k9 (B) STAR DATE JUNE 2009 J.A.C.A. DESIGN L.L.C.

DRAFTING SERVICES
TUCSON, ARIZONA

SHOWER STALLS

# FOR ROOFING MATERIAL SEE ARCH. DWG -ROOFING SLEEVE AS REQUIRED SEE ARCH. DWGS. FOR ROOF SYSTEM

ALTERNATE SUPPORT DETAIL PLUMBER CONTRACTOR SHALL BE RESPONSIBLE FOR OFFSETTING VENTS AS REQUIRED TO MAINTAIN 10"-0" MIN. DISTANCE FROM ALL AIR CONDITIONING AIR INTAKES AND BUILDING INTAKES. COORDINATE VENTS

THRU ROOF WITH MECHANICAL CONTRACTOR - IF APPLY

VENT THRU ROOF DETAIL

ANGLE IRON AND U-BOLT SUPPORT ATTACHED TO

STRUCTURE OR APPROVED

3/4" = 1'-0

- GALLLONS PER FLUSH
- 3. SHOWER HEADS SHALL DELIVER A MAX OF TWO AND ONE-HALF (2.5) GALLONS PER MINUTE
- 4. LAVS OF THE METERING OR SELF-CLOSING TYPE SHALL HAVE A MAX FLOW RATE AT .25 GALLONS PER CYCLE & SHALL REMAIN OPEN FOR

# WATER & SEWER FIXTURE UNIT COUNT

A PERIOD OF NOT LESS THAN 10 SECONDS.

WATER			WATE TAB	R UNITS LE 6-4		SEW TABLE	
PSI	QTY	FIXTURE	GPM	WSFU		UNITS	TTL
8	2	BATH TUB/SHWR	4	2	4	2	4
8	3	HOSE BIBB	5	· 1	4.5		
8	1	CLOTHES WASHER	4	5	5	3	3
8 .	2	LAVATORY	2	1	2	1	2
8	2	WATER CLOSET	6	3	6	4	8
8	1	SMALL SINK (KITCHENETTE)	4	3	3	4	4
TOTAL		23.5	TOTAL	21			

THIS PROJECT TO COMPLY W/ CHAPTER 6 - WATER SUPPLY AND DISTRIBUTION & CHAPTER 7 -SANITARY DRAINAGE LENGTH OF BUILDING SERVICE ( FARTHEST POINT TO METER ) ALL WATER LINE SIZES BASED ON 50 TO 60 P.S.I. SUPPLIED PRESSURE

1. SHOWERS & TUB/SHOWERS COMBINATION SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE PER UPC' 2006

PLUMBING NOTES:

- 2. WATER CLOSET TO BE 1.6 GALLONS PER FLUSH. SINK & SHOWER HEADS TO BE 3 GALLONS PER MINUTE PER UPC CHAPTER 15 WITH LOCAL MODIFICATION
- 3. 3/4" TEMP & RELIEF VALVE PRESSURE. PER UPC 2006

REQUIREMENTS.

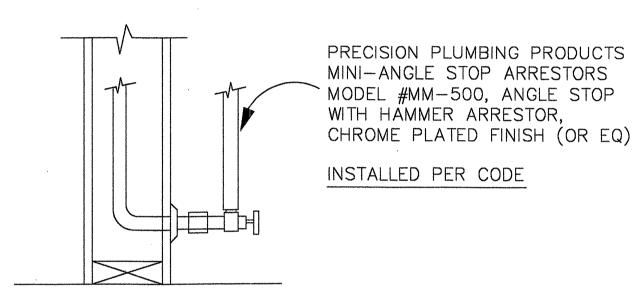
- PROVIDE CONNECTION PER UPC 2006
- 5. CLOTHESWASHER:
- PROVIDE CONNECTION PER UPC 2006

- EXT'G PIPING AND TO VERIFY INVERTS TO ASSURE PROPER SLOPE MAY BE OBTAINED BEFORE BEGINING WORK
- OTHERWISE
- 4. ALL SLAB PENETRATIONS SHALL BE SEALED USING POURABLE URETHANE SEALANT
- 6. TYP. VTR LOCATE MIN 1'-0" ABOVE ROOF, 1'-0" FROM ALL VERTICAL SURFACES
- 7. PROVIDE HOSE END VACUUM BREAKER PER LATEST PLUMBING CODE EDITION.

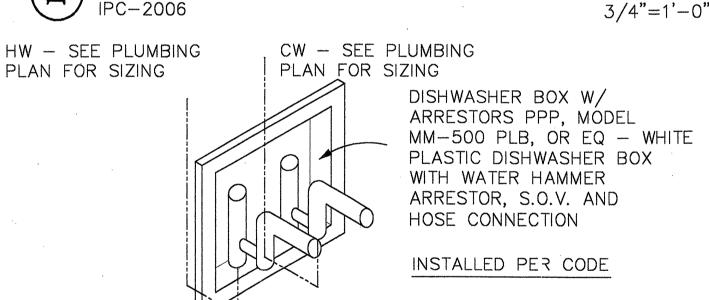
- 6. PROVIDE SHUT OFF VALVE & UNION @ COLD WATER CONNECTION TO WATER HTR. PROVIDE UNION ONLY @ WATER HTR CONNECTION.
- CLOTHESWASHER PROVIDE CONN. PER UPC 2006 PROVIDE SHUT OFF VALVE & UNION @ CW CONN TO W.H. PROVIDE UNION ONLY @ HOT WATER CONN.
- PROVIDE 2 WY CLEAN OUT TO GRADE. PROVIDE CLEAN OUTS PER UPC 2006
- 9. PLUMBER TO MAKE ALL GAS CONNECTIONS TO EQUIPMENT PLUMBER TO PROVIDE CONDENSATE CU LINE TO FURNACE RM. AND CONN TO W.H.
- 10. PLUMBER TO PROVIDE ACCESS DOORS TO SERVICE ALL PLUMB'G EQUIPMENT AS REQUIRED ALL FIXTURES TO HAVE STOPS AND 12" AIR CHAMBERS

# GENERAL NOTES

- 2. PLUMBER TO VERIFY EXACT SIZE AND LOCATION OF ALL
- 3. RUN ALL WASTE LINES AT 2% SLOPE UNLESS NOTED
- 5. CONTRACTOR TO COMPLY W/ UPC 2006 ON SHWR @ ALL LAVS - WASTE TRAPS - TO INCLUDE CO.
- AND 3'-0" ABOVE A/C OUTSIDE AIR INTAKES
- 8. OUTSIDE (UNDERGROUND) WATER LINES INSULATE PER UPC 2006
- MATERIALS, JOINTS AND CONN. COMPLY W/ (UPC 2006) CLEANOUTS - COMPLY W/ TABLE (UPC 2006) TESTING - COMPLY W/ LATEST PLUMBING CODE EDITION
- 10. CONTRACTOR TO COMPLY W/ THE LATEST PLUMBING CODE EDITION ON SHOWERS.
- 11. WET VENTING COMPLY W/UPC 2006
- 12. TRAPS COMPLY W/ UPC 2006 FOR SIZE OF TRAPS AND TRAP ARMS FOR PLUMB. FXTURE. SEE TABLE UPC 2006



# WATER HAMMER ARRESTOR - W.C./TOILET



# (B) IPC-2006

# WATER HAMMER ARRESTOR - WASHER

3/4"=1'-0"

Water hammer arresters shall be installed wherever quick-closing valves are installed in a water distribution system. All of the relevant codes\* call for the devices to conform to ASSE 1010-2004 and to be sized and installed per the manufacturer?s specifications. At a minimum, water hammer arresters are required for flush valves, clothes washers. dishwashers, refrigerator water connections, and similar appliances having quick-closing valves. Inspectors are currently enforcing this code requirement for all quick-closing valves except for the refrigerator water connections which will not be enforced until June 1

\* Relevant codes: Section 609.10, UPC 2006 Section 604.9, IPC 2006 Section P2903.5, IRC 2006

FENSTER KENNETH & VINE MARY A JT/RS

TUCSON AZ 85704-4215 JOB. NO. 96-2k9 (B) STAR DATE JUNE 2009

CELL(520) 808-4052 - FAX (520) 616-0200

DRAWING INDEX:
S-01 SITE PLAN
A-01 FLOOR PLAN
A-02 FOUNDATION PLAN
A-03 FRAMING PLAN A-04 SECTIONS A-05 ELEVATIONS INCLUSIVE HOMES MP-1 PLUMBING PLAN
MP-2 MECHANICAL PLAN
E-01 ELECTRICAL PLAN
GN-1 GENERAL NOTES GUEST QUARTER ADDITION TO EXISTING RESIDENCE STAR DATE JUNE 2009

STAR DATE JUNE 2009

SIA WEST CHULA VISTA ROAD
TUCSON. ARIZONA 85704
Parcel 102-04-0920
CASAS ADOBES ESTATES LOT 448
Docket 11478, Page 3219
Book 13, Page 76
Township 13S, Range 13E, Section
SHEET NO. MP-

OF

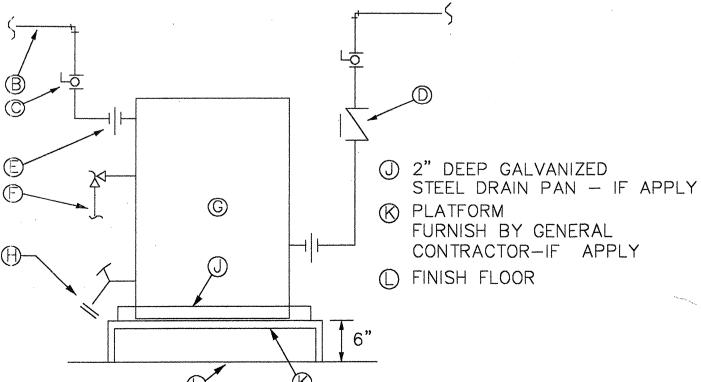
OWNER/DEVELOPER 814 W CHULA VISTA RD

POOR ARCHITECTURE IS NOT THE SAME AS ARCHITECTURE FOR THE POOR

3/4" = 1'-0"

(TYPICAL)

(E) DIELECTRIC UNION (A) DRAIN VALVE WITH HOSE END (TYPICAL)



WATER HEATER (ELECTRIC)

CONTRACTOR TO SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS. 1.02 HVAC DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE APPROXIMATE LOCATION OF DUCTWORK, OUTLETS, EQUIPMENT AND PIPING, DIMENSIONS GIVEN IN FIGURES ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS, AND ALL DIMENSIONS, WHETHER GIVEN IN FIGURES OR SCALED, SHALL BE FIELD VERIFIED. NO DUCTWORK SHALL BE FABRICATED UNTIL DUCT CLEARANCES ARE FIELD VERIFIED.

1.03 BEFORE SUBMITTING A BID CAREFULLY STUDY ALL THE CONSTRUCTION DOCUMENTS. CAREFULLY EXAMINE THE PREMISES AND ANY EXISTING WORK. DETERMINE, IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE EQUIPMENT AND BECOME THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE CONTRACT.

1.04 MAKE ARRANGEMENTS FOR INSPECTIONS AND PERFORM TESTS REQUIRED FOR HVAC WORK.

1.05 FURNISH ANY MISCELLANEOUS ITEMS NORMALLY USED, SPECIFICALLY MENTIONED OR NOT, TO RENDER A COMPLETE INSTALLATION.

1.06 ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

1.07 SUBMIT ARCHITECT 4 COPIES OF SHOP DRAWINGS OR LITERATURE IN AN INDEXED THREE-RING BINDER ON THE FOLLOWING ITEMS:

AIR CONDITIONING UNITS, EXHAUST FAN, REGISTERS, GRILLES, AND DUCT INSULATION.

#### PART II - PRODUCTS: 2.01 CONDENSATE PIPING:

a. CONDENSATE PIPING BELOW THE ROOF AND ABOVE THE CEILING SHALL BE INSULATED WITH 1/2" ARMAFLEX WITH ALL JOINT3 SEALED.

b. PIPING SHALL BE TYPE "M" COPPER PLUGGED TEES FOR CLEANOUTS. c. JOINTS IN CONDENSATE PIPING MAY BE MADE WITH 50-50 SOLDER.

d. ALL CONDENSATE LINES SHALL HAVE P-TRAPS.

2.02 DUCTWORK: SIZES SHOWN ARE ACTUAL SHEET METAL SIZES. GAUGES AND INSTALLATION

SHALL BE ACCORDING TO THE LATEST SMACNA DUCT CONSTRUCTION MANUAL. ALL ELBOWS SHALL HAVE SINGLE THICKNESS TURNING VANES PER SMACNA STANDARDS. DUCTWORK SHALL BE HUNG WITH 20 GAUGE 1-1/8" STRAPHANGERS FASTENED TO THE STRUCTURE ABOVE.

#### 2.03 INSULATION:

LINE ALL AIR-CONDITIONING DUCT WITH 1" FIBERGLASS DUCT LINER. THE LINER SHALL MEET THE LIFE SAFETY STANDARDS ESTABLISHED BY THE NFPA 90A AND 90B. DUCT LINER SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 1071 WITH AN NRC NOT LESS THAN .65 AS TESTED PER ASTM C423 USING A TYPE "A" MOUNTING AND A THERMAL CONDUCTIVITY NO HIGHER THAN .25 AT 75 DEGREES F MEAN TEMPERATURE. WRAP ALL AIR CONDITIONING ROUND BRANCH DUCTS WITH 1-1/2" 3/4 LB. DUCT WRAP WITH VAPOR BARRIER. OVERLAP EDGES 2" AND STAPLE MAXIMUM 2" ON CENTER.

#### 2.04 REFRIGERANT PIPING: a. SHALL BE TYPE ACR COPPER.

b. SUCTION LINE TO BE INSULATED WITH 1/2" ARMAFLEX. ARMAFLEX EXPOSED TO WEATHER TO BE PAINTED WITH TWO (2) COATS ARMAFLEX COATING. REFRIGERATION PIPING TO HAVE TRIPLE EVACUATION WITH DRY NITROGEN.

c. JOINTS IN COPPER AIR CONDITIONING REFRIGERANT PIPING SHALL BE MADE WITH SILFOS AND FLUX AS RECOMMENDED BY THE BRAZING ALLOY MANUFACTURER.

d. A 12-HOUR HOLDING TEST SHALL BE PERFORMED WITNESSED BY ARCHITECT.

e. DURING BRAZING THE PIPE AND FITTINGS SHALL BE KEPT FULL OF AN INERT GAS, DRYING NITROGEN, OR CO2 TO PREVENT FORMATION OF SCALE.

# PART III - EXECUTION:

3.01 PROVIDE ALL OPENINGS REQUIRED THROUGH THE ROOF OR WALLS.

3.02 ALL ELECTRICAL HIGH VOLTAGE WIRING, FUSES, CONDUIT AND DISCONNECT SWITCHES SHALL BE BY THE ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING SHALL BE BY THE HVAC CONTRACTOR.

3.03 ALL DUCT JOINTS SHALL BE SEALED WITH HARDCAST OR EQUIVALENT CMC DUCT SEALER.

3.04 ROUND BRANCH DUCT CONNECTIONS SHALL BE MADE WITH A ROUND HOLE CUTTER AND A SPIN-IN

COLLAR SEALED WITH HARDCAST. NO DOVE TAIL FITTINGS AND NO DUCT TAPE ALLOWED.

3.05 PAINT ALL VISIBLE SHEET METAL DUCTWORK BEHIND GRILLES AND REGISTERS FLAT BLACK. 3.06 SUPPORT ALL CEILING DIFFUSERS AND RETURN GRILLES CONNECTED TO FLEXIBLE DUCT FROM STRUCTURE.

3.07 PROVIDE ACCESS PANELS FOR ANY EQUIPMENT REQUIRING ACCESS LOCATED ABOVE SOLID CEILINGS.

3.08 BALANCE ALL AIR QUANTITIES AS INDICATED ON THE DRAWINGS (+) OR (-) 10%, IN ACCORDANCE WITH BALANCING PROCEDURES OR SMACNA, OR AABC. SUBMIT BALANCING REPORTS IN TRIPLICATE, INCLUDING EQUIPMENT VOLTAGE

AND AMP READINGS. AGENCY INDEPENDENT OF CONTRACTOR SHALL DO

3.09 FURNISH THREE SETS OF OPERATION, MAINTENANCE, WIRING AND WARRANTY INFORMATION ON ALL EQUIPMENT TO THE ARCHITECT IN AN INDEXED THREE-RING BINDER.

3.10 MAKE NOTE OF ANY CHANGES MADE IN LAYOUT AND INCORPORATE IN "RECORD" DRAWINGS SUBMITTED TO THE OWENR/G.C. AT COMPLETION OF PROJECT.

3.11 GUARANTEE ALL PARTS AND LABOR FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND PROVIDE AN ADDITIONAL FOUR-YEAR WARRANTY FOR ALL A/C COMPRESSORS.

# PIMA COUNTY, ARIZONA

UNDER 4,000 FT ELEVATION

EXTERIOR DESIGN CONDITIONS DESIGN DRY BULB TEMP. 104° DESIGN DRY BULB TEMP.

DESIGN WET BULB TEMP. 66 ° F 2,100

THE SOLAR GAIN COEFICIENT SHGC MIN VALUE OF 0.40 APPLIES TO ALL WINDOWS

3/4"=1'-0"

& \ CIR. OF DUCT CEILING DIFFUSER WITH FLEX DUCT DETAIL

WORKSHOP/STORAGE CEILING CEILING R-30 BATT INSULATION R-30 BATT INSULATION **BEDROOM** CEILING R-30 BATT INSULATION 6" Ø FLEX — 6"ø FLEX~ MP-2) 10" FLEX-~6" Ø FLEX MP-2 150 CFM 5/8¢ REFRIG R-30 BATT INSULATION 4" ø FLEX — R-30 BATT INSULATION RESIDENCE DWELLING BEDROOM CEILING CONCRETE SLAB R-30 BATT INSULATION ===== 2 MECHANICAL PLAN 1/4' :1'-0' NORTH 1RC-2006 & LOCAL AMENOMENTS

-SUPPORT AT CLOSE INTERVALS
TO PREVENT SAGGING

-SHEET METAL TRANSITION FROM ROUND TO RECTANGLE

3/4"=1'-0"

-FACTORY SOUND CURB

-BACKDRAFT DAMPER

3/4"=1'-0"

-EXHAUST FAN

FLEX DUCT SECURE WITH CINCH BANDS

FLEX DUCT DETAIL

DUCT HANGER DETAIL

ADD INSULATION AS NEED IT

SUPPLY AIR REGISTER

DISCONNECT

ROOFING

ROOF DECK

SUPPLY REGISTER

KEYNOTES (15) 12"X6" SAR (SUPPLY) 1 WINDOWS 150 CFM (GRILLE) TYP - BEDROOM/GREAT ROOM 2 DOOR (SOLID CORE) PER N 1102 IRC-2006 (16) 8"X6" SAR (SUPPLY) (3) SLIDING DOOR

75 CFM (GRILLE) PER N 1102 IRC-2006 TYP - BATHROOM 4 <u>DOORS</u>

COORDINATE WITH MECH. CONTRACTOR

COORDINATE WITH MECH. CONTRACTOR

20 2-5/8" Ø REFRIG. LINE

" CUT BELOW FOR AIR 20"X12 RETURN GRILLE FLOW (RETURN) 1200 CFM

(5) WATER HEATER ⟨18⟩ 24"X12" DUCTWORK 40 GAL (GAS) RETURN SEE PLUMBING PLAN

(19) 20"X20" RIGID DUCTWORK DRYER 2-100 SI AIR SUPPLY AIR GRILLE RELIEF (7) WATER HEATER

FLUE TYPE "B" Cle (8) EXTERIOR WALL 6" WIDE (R-19 BATT INSUL) PER N 1102 TABLE IRC-2006

INTERIOR WALL

1 HR FIRE RATED WALL 5/8' TYPE "X" GWB

DOOR (METAL) FIRE RATED DOOR 1) 12"X6" AIR GRILLE HI and Low Comb. vents 20 MIN F.R.

(12) COMPRESSOR UNIT OUTDOOR 3 TONS (220V)

SEE ELECT PLÂN 13 FURNACE/BLOWER INDOOR (1,200 CFM) SEE GAS' PLAN

(14) 8"X8" CD-4W (SUPPLY) 125 CFM (SAR) LAUNDRY

3/4"=1'-0"

# EXHAUST FAN SCHEDULE

PROVIDE MANUFACTURER'S ROOF OR WALL CAPS.

PROVIDE SEPARATE WALL SWITCH, COORDINATE WITH ELECTRICAL,

WEIGHT REMARKS (IN)WG WATTS SPEEDS FAN ELECT. 75 0.25 75 1 900 115-1-60 20 SEE NOTES 150 0.25 75 1 1200 115-1-60 20 SEE NOTES PROVIDE MANUF'S. DISCONNECT AND BACKDRAFT DAMPER. PROVIDE MANUF'S HANGING ISOLATION KIT (IF REQUIRED)

1. FAN COIL UNIT SHALL HAVE SINGLE POINT POWER CONNECTION.

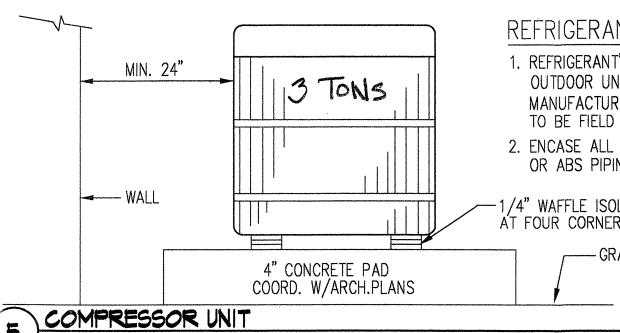
2. PROVIDE LOW VOLTAGE CONTROL POWER TRANSFORMER FAN RELAY, LIQUID LINE FILTER DRYER, AND ANTI-RECYCLING CONTROL TO PREVENT RAPID COMPRESSOR RECYCLING.

3. MECHANICAL CONTRACTOR TO PROVIDE & INSTALL THERMOSTAT. CARRIER RESIDENTIAL - TOTAL LINE MODEL P-474-1050.

4. PROVIDE MAUFACTURER'S ELECTRIC HEATERS TO BE FIELD INTALLED. COORDINATE WITH ELECT. CONTRACTOR

# HEAT PUMP SPLIT SYSTEM SCHEDULE

INDOOR UNIT (FAN COIL) CAPACITY VERT. 1200 60 130 CU-1 36,000 BTUH 0.50" 230-1-60 OUTDOOR UNIT (COMPRESSOR UNIT) (\* NOM. MFG. AND MODEL TON. SEE CATALOS 230-1-60 SEE NOTES



TUCSON, ARIZONA www.jacadesigndrafting.com CELL(520) 808-4052 - FAX (520) 616-0200 POOR ARCHITECTURE IS NOT THE SAME AS ARCHITECTURE FOR THE POOR

SUPPLY AND RETURN DUCTS - PROVIDE A MIN OF R-8 INSULATION (2" THICK) INCLUDED VENTED ATTIC - EXCEPT LOCATED INSIDE THE THERMAL ENVELOPE R 1103.2.14 SHOW R-4 (2" INSULATION) WHEN DUCTS ARE LOCATED IN AN UNCONDITIONED SPACE

NOTES

**AMENDMENTS** 

(1.) 6" O EA UP THRU ROOF OR SIDEWALL

2. 4" DIA. DRYER VENT CONNECTION IN

TERMINATE WITH MANUFACT-ROOF CAP.

TRUSS SPACE UP THRU ROOF OR WALL TERMINATE WITH APPROVED DRYER VENT.

(3.) 6" O RANGE HOOD EXHAUST. TERMINATE WITH

(4.) 3/4" CONDENSATE DRAIN OUT TO LANDSCAPE.

ALL APPLIANCES IN CONFINED SPACE

W/ FREE AREA OPENING PROVIDE

2- 100 SI (4X12) EA MIN PER

M 1702.2 IRC-2006

APPROVED ROOF CAP. COORDINATE CONNECTIONS WITH KITCHEN EQUIP. SUPPLIER.

THIS PROJECT WILL COMPLY WITH IRC-2006

& LOCAL AMENDMENTS - IECC-2006 & LOCAL

(CHASE) INSIDE THERMAL ENVELOPE PER IECC 503.2.7 (2006 EDITION)

OWNER/DEVELOPER FENSTER KENNETH & VINE MARY A JT/RS 814 W CHULA VISTA RD TUCSON AZ 85704-4215

JOB. NO. **96-2k9 (B)** STAR DATE **JUNE 2009** 

J.A.C.A. DESIGN L.L.C. DRAFTING SERVICES

A-05 ELEVATIONS INCLUSIVE HOMES MP-1 PLUMBING PLAN MP-2 MECHANICAL PLAN E-01 ELECTRICAL PLAN GN-1 GENERAL NOTES GUEST QUARTER ADDITION TO EXISTING 814 WEST CHULA VISTA ROAD
TUCSON. ARIZONA 85704
Parcel 102-04-0920
CASAS ADOBES ESTATES LOT 448
Docket 11478, Page 3219
Book 13, Page 76
Township 13S, Range 13E, Section
SHEET NO.

A-04 SECTIONS

A-02 FOUNDATION PLAN A-03 FRAMING PLAN

> MP-2  $\mathbf{OF}$

DOORS PER N 1101.2 IRC-2006 -EXHAUST DUCT - SEE MECH. PLAN FOR SIZE U = 0.75 MINDEGREE DAYS HEATING WALL MOUNTED FAN DETAIL (EF-1 & EF-2) 2,814 DEGREE DAYS COOLING (\*) CARRIEN OF EQUAL INSTALL PER MANUFACTURER SPECIFICATIONS 3/4"=1'-0" 1- 18 GA. G.I. DUCT SPIN IN COLLAR WITH MANUAL DAMPER REFRIGERANT PIPING NOTE HANGER FASTENED (NO DOVE TAIL CONNECTIONS). TO STRUCTURE ABV. I. REFRIGERANT'S LINES SIZES AND CONNECTIONS BETWEEN 24 GA. STRAPS SUPPORTED FROM OUTDOOR UNITS AND FAN COIL UNITS SHALL BE PER STRUCTURE ABOVE, SUPPORT AT 1- 18 GA. G.I. DUCT - HANGER FASTENED TO STRUCTURE ABV. SHT. MTL S/A DUCT WITH 1" ACOUSTICAL CLOSE INTERVALS TO AVOID MANUFACTURER'S RECOMMENDATIONS. ROUTING OF LINES TO BE FIELD VERIFY BY THE MECHANICAL CONTRACTOR. SAGGING. MAX. 5'-0" O.C. DUCT LINER DUCT-2. ENCASE ALL REFRIG. LINES UNDERGROUND IN 4" PVC SHT. MTL. PLENUM OVER CD'S. 1/2"6WB OR ABS PIPING, SEAL OPENING OUTDOOR WEATHERTIGHT. LINE WITH 1" ACOUSTICAL ANTI-SAGGING DUCT LINER. (3) SHEETMETAL 1/4" WAFFLE ISOLATORS T-BAR OR FLEX DUCT - SECURE WITH SCREWS PER DUCT AT FOUR CORNERS DRYWALL CLG. CINCH BANDS HANGER. (TYP.)--GRADE PROVIDE CRADLE WITH HEMMED EDGES 12" LONG CEILING DIFFUSER.

EXISTING 400 AMPS SERVICE (MAIN LOAD)

LOCATIONS OF LUMINAIRES SHALL BE COORDINATED WITH THE

LUMINAIRES SHALL BE COORDINATED WITH ELECTRICAL ENGINEER

AUTHORITY TO CHANGE LOCATION AND TYPE IN FIELD. ADDITIONAL

ONWER SHALL COORDINATE WITH G.C./OWNER AND OBTAIN APPROVAL

IF LUMINAIRES ARE GREATER THAN 150 WATTS OR IF ADDITIONAL

3) CONTRACTOR SHALL PROVIDE JUNCTION BOX FOR CEILING FAN AS

REQUIRED PER NEC 370-27C AND IRC-E4001.6. CEILING FAN

WITHOUT CEILING FAN LIGHT KIT SPECIFIED BY ARCHITECT AND

4) EACH CEILING FAN SHALL BE CONTROLLED WITH 1 SWITCH. CEILING

5) ALL LUMINAIRES INSTALLED OVER SHOWERS OR TUBS SHALL BE UL

LISTED FOR 'WET' INSTALLATION. LUMINAIRES CORD CONNECTED.

HANGING, TRACK, PENDANT OR SUSPENDED PADDLE FANS ARE NOT

ALL LUMINAIRES INSTALLED OUTDOORS UNDER EAVES SHALL BE UL

OUTDOORS AND IN DIRECT CONTACT TO RAIN SHALL BE UL LISTED

LISTED FOR 'DAMP' INSTALLATION. ALL LUMINAIRES INSTALLED

7) ALL LUMINAIRES SHALL COMPLY WITH THE CURRENT OUTDOOR

8) ALL CIRCUITRY SHALL BE CONCEALED WITHIN WALL OR CEILINGS.

10) CONTRACTOR SHALL INTERCONNECT DEVICES THAT ARE SHOWN AS

11) PROVIDE EMPTY 1/2"C (WITH PULL STRING) FROM HVAC UNIT TO

12) CONTRACTOR SHALL PROVIDE FUSIBLE SAFETY DISCONNECTS WITH

13) STARTERS FOR ALL HVAC EQUIPMENT SHALL BE FURNISHED WITH

HVAC EQUIPMENT COORDINATE WITH MECHANICAL PLANS AND

14) CONTRACTOR SHALL MOUNT HVAC UNIT DISCONNECT TO NEW METAL

TYPE OF ELECTRICAL REQUIREMENTS (GAS OR ELECTRIC) FOR

16) CONTRACTOR SHALL COORDINATE WITH OWNER AND MILL WORK

17) CONTRACTOR FOR EXACT MOUNTING HEIGHTS OF RECEPTACLES

ABOVE AND BELOW COUNTERS AND LOCATED AT ALL

18) CONTRACTOR SHALL COORDINATE WITH ARCHITECT EXACT

APPLIANCES PRIOR TO ANY ROUGH IN. PLANS INDICATE ALL DEVICES

TO BE ELECTRICAL. MAKE ADJUSTMENTS IN FIELD AS NECESSARY

MOUNTING HEIGHTS AND LOCATIONS OF ALL DATA, TELEPHONE AND

CABLE TV OUTLETS PRIOR TO ROUGH IN. INSTALL ADJACENT TO

WRITING FROM OWNER IF NEW DISCONNECT CAN BE

15) CONTRACTOR SHALL COORDINATE WITH OWNER EXACT

FOR A COMPLETE AND FUNCTIONAL SYSTEM.

ISLANDS/PENINSULA PRIOR TO ROUGH IN.

POWER OUTLET.

MOUNTED TO SIDE OF HVAC UNIT PRIOR TO ROUGH-IN.

RESPECTIVE UNIT CONTROLLER FOR INTERLOCK/CONTROL CABLING.

COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH MECHANICAL

FRN-R FUSES SIZED PER MECHANICAL EQUIPMENT NAMEPLATE DATA

WHERE INDICATED. SIZE OF DISCONNECT AS INDICATED ON PLAN.

MECHANICAL CONTRACTOR OF RECORD FOR EXACT REQUIREMENTS.

CHANNEL SUPPORTS. CONTRACTOR SHALL OBTAIN APPROVAL IN

9) ALL HOME RUNS SHALL BE CONCEALED BACK TO PANEL.

NO CIRCUITRY SHALL BE EXPOSED UNLESS NOTED OTHERWISE OR

FANS SHALL NOT BE INSTALLED WITH LIGHTING KITS UNLESS

OWNER PRIOR TO ANY ROUGH IN WORK, OWNER HAS THE

2) EACH LUMINAIRE LOCATION SHALL NOT EXCEED 150 WATTS.

GENERAL CONSTRUCTION NOTES

PRIOR TO ANY ROUGH IN.

CONTRACTOR INSTALLED.

FOR 'WET' INSTALLATION.

LIGHTING ORDINANCES.

DIRECTED BY OWNER

PLANS.

BEING ON THE SAME CIRCUIT.

OTHERWISE NOTED.

PERMITTED.

LUMINAIRES ARE TO BE INSTALED.

DEMARCATION 19) CONTRACTOR SHALL COORDINATE ALL DEDICATED POWER OUTLETS REQUIREMENTS WITH EQUIPMENT PRIOR TO PURCHASE OF OUTLET.

PLATES THIS PROJECT. IDENTIFY FUNCTION OF BOX INSIDE EACH BACK BOX WITH PERMANENT INK. EXACT REQUIREMENTS BETWEEN CABLE TV UTILITY COMPANY AND

23) TELEVISION CABLE OUTLETRS TO BE PROVIDED WITH COAX

REQUIREMENTS. 24) LOCATE AND SPACE RECEPTACLES PER IRC SECTION 3801.

28) CEILING FAN JUNCTION BOXES ARE TO BE RATED PER E4001.6. LIGHT FIXTURES IN CLOSETS ARE TO BE INSTALLED PER E3903.11

29) ALL OUTDOOR LIGHTS ARE TO BE RATED LESS THAN 155 WATTS EACH. INSTALL MIDWEST A/C DISCONNECT BOX AT EACH UNIT.

E3904.8 AND E3904.9.

31) CONDUCTORS NO. 8 AND LARGER ARE TO BE STRANDED PER IRC 3306.4.

## GENERAL:

EXISTING 60 AMPS PANEL

NEW 125 AMPS PANELS

45 DEGREES SWEEP

(CU) GROUND - 2" C

(CU) GROUND - 2" C

SEE ELECTRICAL PLAN FOR LOCATION

ELEC EQUIP MIN 10 KA RATED

PROVIDE TEP AFC ON JOB SITE ALL ELEC EQUIP MUST BE RATED < AFC

200 AMPS PANEL

60 AMPS PANEL

125 AMPS PANEL

NEW GUEST

QUARTER

125 AMPS

FINISH GRADE

EXISTING

EXISTING

GARAGE

160 AMPS

12 BREAKERS

3 - #2 "THWN"  $(CU)^{"}+1-#8$ 

3 - #2 "THWN"

 $(CU)^{"} + 1 - \#8$ 

12 BREAKERS (SUB-PANEL "B")

24 BREAKERS (SUB-PANEL "C")

ALL WORK SHALL COMPLY WITH THE LATEST PUBLISHED EDITION OF THE NATIONAL ELECTRIC CODE, AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION, AND THE RULES AND REGULATIONS OF ANY UTILITY COMPANIES SERVING THE FACILITY OR THE PROPERTY. WHERE THE CONTRACT DOCUMENTS EXCEED THESE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. IN NO CASE SHALL ANY WORK BE INSTALLED CONTRARY TO, OR BELOW, MINIMUM LEGAL STANDARDS. ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THESE CODES, RULES AND REGULATIONS SHALL BE BROUGHT TO THE THE CONTRACTOR SHALL VISIT THE JOB SITE AND FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE

ORDERING OF EQUIPMENT, OR CONSTRUCTION. ALL EQUIPMENT SHALL BE NEW, PURCHASED SPECIFICALLY FOR THE PROJECT, BE U.L. LISTED FOR THE ENVIRONMENT IN WHICH INSTALLED, AND BE DELIVERED TO THE JOB SITE IN THE ORIGINAL MANUFACTURER'S SHIPPING CONTAINERS. ALL ELECTRICAL EQUIPMENT, FUSES, ETC. WITHIN THE SAME CATEGORY (E.G., DISCONNECTS, PANEL BOARDS, CIRCUIT BREAKERS, FUSES) SHALL BE OF THE SAME

THE ELECTRICAL CONTRACTOR IS SPECIFICALLY RESPONSIBLE FOR COORDINATING THE FURNISHING AND INSTALLATION OF THE MECHANICAL EQUIPMENT CONTROL WIRING, STARTERS FOR MECHANICAL AND OWNER FURNISHED EQUIPMENT, STARTER INTERLOCK WIRING, MECHANICAL AND OWNER FURNISHED EQUIPMENT DISCONNECTS, FIRE ALARM CONNECTIONS TO HVAC EQUIPMENT, FIRE ALARM SPRINKLER FLOW SWITCHES. FIRE ALARM DUCT SMOKE DETECTORS AND THEIR ASSOCIATED CONDUIT AND WIRING WITH THE GENERAL CONTRACTOR PRIOR TO BIDDING THE PROJECT. THE ELECTRICAL CONTRACTOR SHALL BE SPECIFICALLY RESPONSIBLE FOR FURNISHING AND INSTALLING THESE ITEMS AND THEIR ASSOCIATED CONDUIT. WIRING AND INTERCONNECTS UNLESS SPECIFICALLY RELIEVED OF THE RESPONSIBILITY BY THE GENERAL

INSTALL FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

BEDROOM--A-13 #12 AWG

ARC FAULT CIRCUIT INTERRUPTOR

BEDROOM-2

#12 AWG

(OUTLETS/RECPTACLES)

OR EQUAL.

"HACR" RATED.

ORDERING THE EQUIPMENT.

WIRING DEVICES:

SHALL BE OF THE GROUND FAULT INTERRUPTING TYPE.

INSTALLED UNDER A COMMON FACE PLATE.

GROUND WIRE BACK TO THE ORIGINATING PANEL.

ISOLATED GROUND WIRE BACK TO THE ORIGINATING PANEL

LV A-19 (SD)

BEDROOM-

S.O.W. #12 AWG / 1/20A GFI/WP

C-21,23

C-1,31

220V 2/50 A #8WG

TIME CLOCK FOR LV OUTDOOR LIGHTING & RECEPTS AT EAVES

DEMARCATION

TELEPHONE

SUB-PANEZ

"CH

FOR HOLIDAY LIGHTS

CATV

OUTDOOR A-20 #12 AWG

GREAT ROOM

1/4" =1'-0"

A-24 GFI/WP #12 AWG

GREAT ROOM

GFI/WP --#12 AWG

A-13

GREAT ROOM RECPT

CIRCUIT BREAKER PANELBOARDS:

PANELBOARD BUS STRUCTURE AND CIRCUIT BREAKERS SHALL HAVE RATINGS AS INDICATED ON THE

PANEL SCHEDULES ON THE DRAWINGS. ALL PANELBOARDS SHALL BE U.L. LISTED WITH A MINIMUM

INTEGRATED SHORT CIRCUIT RATING OF 10,000 AMPS SYMMETRICAL FOR 240 VOLT RATED PANELS

CIRCUIT BREAKERS SHALL BE PLUG-IN FOR 240 VOLT RATED PANELBOARDS AND BE OF THE SAME

THERMAL-MAGNETIC TYPE, SINGLE HANDLE FOR ALL POLES. WITH RATINGS AS INDICATED ON THE

PANELBOARD IN WHICH INSTALLED. CIRCUIT BREAKERS USED TO SWITCH LIGHTING CIRCUITS SHALL BE

"SWD" RATED AND CIRCUIT BREAKERS FEEDING HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE

PANELBOARDS SHALL BE ENCLOSED IN A STEEL CABINET PER U.L. STANDARD 50 WITH WIRING GUTTER

RUST-INHIBITING PRIMER AND BAKED ENAMEL FINISH. CIRCUIT BREAKER PANELBOARDS SHALL HAVE

LOCKABLE DOORS WITH FLUSH CYLINDER TUMBLER-TYPE LOCK WITH CATCH AND SPRING-LOADED

ALL PANELBOARDS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND BE

CLEAR PLASTIC COVER INDICATING LOAD SERVED AND LOCATION. THE CONTRACTOR SHALL VERIFY

MOUNTING LOCATION AND, IN THE CASE OF RECESSED PANELBOARDS, WALL THICKNESS PRIOR TO

COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE, BACK BOXES, TRIM, LUGS AND WITH A COMPLETE,

TYPED, PANELBOARD SCHEDULE MOUNTED ON THE INSIDE OF THE DOOR IN A DIRECTORY FRAME WITH

ALL SWITCHES, RECEPTACLES, OUTLETS, ETC. SHALL BE INSTALLED COMPLETE WITH GROUNDING BOXES,

STAINLESS AND OUTLETS IN WHITE MATCHED TO THE DEVICE INSTALLED UNLESS NOTED OTHERWISE ON

ALL MOUNTING HARDWARE AND SMOOTH WHITE SWITCHES/OUTLETS WITH LIGHT SWITCHES FACE PLATES IN

ALL RECEPTACLES SHALL BE INSTALLED AT 12 INCHES ABOVE FINISHED FLOOR (A.F.F.) OR FOUR INCHES

ABOVE COUNTERS (A.C.) AND/OR BACKSPLASHES AND SHALL BE LOCATED WITHIN SIX FEET OF DOOR

OPENINGS AND NOT MORE THAN TWELVE FEET APART AS MEASURED ALONG THE SURFACE OF THE

WALL(S). THE CONTRACTOR SHALL COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS,

CABINETRY SUPPLIER AND/OR EXISTING CABINETRY PRIOR TO ROUGH-IN. RECEPTACLES LOCATED IN

OTHERWISE ON THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE SWITCH LOCATIONS WITH

WHERE INSTALLED ADJACENT TO A RECEPTACLE, THE LIGHT SWITCH AND RECEPTACLE SHALL BE

ARCHITECTURAL DRAWINGS, CABINETRY SUPPLIER AND/OR EXISTING CABINETRY PRIOR TO ROUGH-IN.

ALL RECEPTACLES SHALL BE RATED AT TWENTY AMPS, 125 VOLTS, GROUNDING, TYPE, OF STANDARD

NEMA CONFIGURATION AND EQUAL TO PASS & SEYMOUR UNLESS NOTED OTHERWISE ON THE DRAWINGS.

ALL SWITCHES SHALL BE RATED AT TWENTY AMPS, 125 VOLTS, TYPE AS INDICATED ON THE DRAWINGS,

ALL INCANDESCENT DIMMERS SHALL BE OF THE SLIDE TYPE, RATED 120 VOLTS, HAVE A MINIMUM RATING

OF 2,000 WATTS AT RATED VOLTAGE AND EQUAL TO LUTRON "NOVA" SERIES UNLESS NOTED OTHERWISE

DIMMERS USED FOR FLUORESCENT LIGHTS SHALL BE RATED FOR USE WITH FLUORESCENT LIGHTS, BE OF

CAPACITY OF 14 - 40 WATT RAPID START LAMPS AND EQUAL TO LUTRON "NOVA" SERIES UNLESS NOTED

OTHERWISE ON THE DRAWINGS. ALL DIMMING CIRCUITS SHALL USE AN INDEPENDENT NEUTRAL AND

ON THE DRAWINGS. ALL DIMMING CIRCUITS SHALL USE AN INDEPENDENT NEUTRAL AND ISOLATED

THE SLIDE TYPE, HAVE A RATED VOLTAGE OF THE LIGHT FIXTURES INSTALLED. HAVE A MINIMUM

BATHROOMS, TOILETS, KITCHENS (WITHIN SIX FEET OF ANY SINK), EXTERIOR LOCATIONS AND IN GARAGES

ALL LIGHT SWITCHES SHALL BE INSTALLED AT 54 INCHES ABOVE FINISHED FLOORS (A.F.F.) UNLESS NOTED

DRAWINGS. CIRCUIT BREAKERS SHALL HAVE A MINIMUM SHORT CIRCUIT RATING EQUAL TO THE

SPACE PER U.L. STANDARD 67. THE BOX AND/OR FRONTS SHALL BE FULLY FINISHED WITH

STAINLESS STEEL DOOR PULL. ALL PANELBOARDS SHALL BE KEYED ALIKE.

THE DRAWINGS. CONFIRM FACE PLATE MATERIAL @ KITCHEN WITH ARCH. TECT.

AND EQUAL TO PASS & SEYMOUR UNLESS NOTED OTHERWISE ON THE DRAWINGS.

MANUFACTURER AS THE PANELBOARD SUPPLIED. CIRCUIT BREAKERS SHALL BE OF THE

(MAXIMUM) WITH ALL DEVICES AND CIRCUIT BREAKERS IN PLACE. PANELBOARDS SHALL BE SQUARE "D"

20) CABLE, JACKS, AND FACE PLATES FOR TELEPHONE, DATA, AND CABLE TV SHALL BE INSTALLED UNDER SEPARATE CONTRACT CONTRACTOR SHALL INSTALL INFRASTRUCTURE AND BLANK COVER

21) CONTRACTOR SHALL COORDINATE WITH LOCAL CABLE COMPANY FOR CONTRACTOR RESPONSIBILITIES. SYSTEM SHALL BE INSTALLED COMPLETE AND FULLY FUNCTIONAL.

22) CONTRACTOR SHALL COORDINATE WITH LOCAL PHONE COMPANY FOR EXACT REQUIREMENTS BETWEEN TELEPHONE UTILITY COMPANY AND CONTRACTOR RESPONSIBILITIES. SYSTEM SHALL BE INSTALLED COMPLETE AND FULLY FUNCTIONAL.

CABLE, 75 OHM OUTLETS AND WIRED PER TELEVISION COMPANIES

25) FUSE ALL MECHANICAL EQUIPMENT DISCONNECTS PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS.

26) SMOKE DETECTORS ARE TO BE LOCATED PER IRC R 317 AND BE RATED 120 VOLT WITH BATTERY BACKUP AND WITH AUDIBLE LOCAL ALARM.

27) ALL RECEPTACLES IN BATHROOMS, KITCHENS, GARAGES AND CARPORTS ARE TO BE GFCI RATED PER E3802.

30) RECESSED LIGHTS WHERE REQUIRED SHALL BE INSTALLED PER IRC

ATTENTION OF THE ENGINEER PRIOR TO BIDDING THE PROJECT OR ANY WORK ON THE ITEM IN QUESTION. EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING.

MANUFACTURER.

CONTRACTOR.

# LIGHT FIXTURES

\$\$ GARAGE SWITCH

GARAGE

1 CAR GARAGE 310 SF

ALL LIGHT FIXTURES SHALL BE U.L. LISTED, AS SCHEDULED OR INDICATED ON THE DRAWINGS, AND BE INSTALLED COMPLETE WITH ALL MOUNTING HARDWARE, LAMPS, LENSES, JUNCTION BOXES, SEISMIC WIRES, ETC. NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. ALL FIXTURES SHALL BE THOROUGHLY CLEANED AT THE END OF THE CONSTRUCTION AND ALL BURNED OUT LAMPS REPLACED. LIGHT FIXTURES REQUIRING BALLASTS SHALL HAVE BALLASTS OF THE ENERGY EFFICIENT TYPE, GENERAL ELECTRIC WATT MISER II OR EQUAL. FLUORESCENT LIGHT FIXTURES USED ON DIMMING CIRCUITS SHALL BE

SUPPLIED WITH APPLICABLE DIMMING BALLASTS. LAMPS SHALL BE AS SCHEDULED ON THE DRAWINGS, OF STANDARD WATTAGE AND BE GENERAL ELECTRIC OR EQUAL.

POLE MOUNTED LIGHTS, BOLLARDS, ETC. SHALL BE INSTALLED COMPLETE, WITH FOUNDATIONS AND ANCHOR BOLTS PER THE MANUFACTURER'S RECOMMENDATIONS, AND BE FACTORY PRIMED AND PAINTED. THE CONTRACTOR SHALL OBTAIN BOLT PATTERNS AND FOUNDATION RECOMMENDATIONS FROM THE MANUFACTURER PRIOR TO THE START OF POLE FOUNDATION CONSTRUCTION.

# DISCONNECTS/STARTERS/CONTACTORS:

#12 AWG

₹70-8,10

#12 AWG

—GFI∕WP #12 AWG

GARAGE (LITE) #12 AWG

ALL DISCONNECTS SHALL BE NEMA STANDARD AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS COMPLETE WITH ALL FUSES, LUGS, CONNECTORS, ETC., RATED FOR THE LOAD SERVED OR AS INDICATED ON THE DRAWINGS AND EQUAL TO SQUARE "D".

ALL STARTERS, COMBINATION STARTERS, CONTACTORS AND COMBINATION CONTACTORS SHALL BE NEMA STANDARD AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS COMPLETE WITH FUSES, 120 VOLT COIL, HAND-OFF-AUTO SELECTOR SWITCH MOUNTED IN THE COVER, OVERLOADS, OVERLOAD HEATERS, LUGS, CONNECTORS, ETC., RATED FOR THE LOAD SERVED OR AS INDICATED ON THE DRAWINGS AND EQUAL TO SQUARE "D".

MANUAL MOTOR STARTERS SHALL BE NEMA STANDARD, TOGGLE SWITCH TYPE AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS COMPLETE WITH OVERLOADS, LUGS, CONNECTORS, ETC., RATED FOR THE LOAD SERVED OR AS INDICATED ON THE DRAWINGS AND EQUAL TO SQUARE "D".

# WIRING:

ALL WIRING SHALL BE SOLID COPPER, TYPE "NM", FOR ALL CIRCUITING CONCEALED WITHIN WALL AND OTHER BUILDING SPACES. IN EXPOSED LOCATIONS, BELOW SIX FEET TO FINISHED FLOOR OR FINISHED GRADE, OR IN WET LOCATIONS, WIRING SHALL BE TYPE THHN/THWN INSTALLED IN GALVANIZED IMC CONDUIT. UNDERGROUND SERVICE FEEDERS SHALL BE TYPE "SE" CABLE, UNDERGROUND PANEL OR EQUIPMENT FEEDERS SHALL BE TYPE "UF" CABLE.

MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. RECOMMENDED WIRE PULLING TENSIONS (WHERE CONDUIT IS USED), TAKING INTO ACCOUNT CONDUIT SIZE, CONDUIT BENDS AND WIRE LAY, SHALL NOT BE EXCEEDED.

## EQUIPMENT CONNECTIONS:

THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY CONDUIT, WIRE, DISCONNECTS, MOTOR STARTERS AND CONNECTIONS REQUIRED FOR MECHANICAL AND OWNER FURNISHED EQUIPMENT FOR THE PROJECTS RATED AT 120 VOLTS OR ABOVE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND INTERCONNECTION OF LOW VOLTAGE CONTROL WIRING AND CONDUIT WITH THE MECHANICAL CONTRACTOR OR OWNER PRIOR TO BIDDING THE PROJECT.

THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND OWNER FURNISHED EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO THE BID OR THE START OF CONSTRUCTION.

## SMOKE DETECTORS:

SMOKE DETECTORS SHALL BE OF THE PHOTO-ELECTRIC TYPE, 120 VOLTS AND INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S RECOMMENDATIONS AND THE REQUIREMENTS OF THE JURISDICTIONAL AUTHORITY. THE CONTRACTOR SHALL VERIFY ANY APPLICABLE INSTALLATION REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION. CONDUIT:

ALL CONDUITS SHALL BE GALVANIZED IMC IN EXPOSED LOCATIONS ABOVE GRADE. CONDUITS INSTALLED IN SLABS SHALL BE GALVANIZED IMC, MAXIMUM OF 3/4 INCH, IN SLABS NOT LESS THAN FOUR INCHES THICK.

CONNECTORS FOR IMC CONDUITS SHALL BE SET-SCREW TYPE IN DRY LOCATIONS. CONNECTORS FOR DAMP OR WET LOCATIONS SHALL BE THE COMPRESSION TYPE.

i						1 /			
PANELBOARD:	SQUARE	"D"	VOLTA	GE: 120,	/240 1 PH. 3	WIRE		10 K MIN AIC	
TYPE:	ALL-IN-O	NE	иом	1 1 1 (1) 1 .		125 AI	MP MAII	N □ LUGS ONLY ■ BREAKER	
BRANCH CIRCUITS									
CIRCUIT DESCRI	PT.	CKT NO.	C/B	WIRE/ A	PHASE B	C/B	CKT NO.	CIRCUIT DESCRIPT.	
CU-1		1	50A	8	10	30A	2	DRYER	
KITCHENETTE RECPT		5	20A 1P	12	12	20A 1P	6	WASHER	
KITCHENETTE RECPT		7	20A 1P	12	R	40A	8	WATER HEATER	П
KITCHENETTE REFRIG U.G.		9		12		2P	10		
KITCHENETTE MICROWAVE		11		12	12		12	BEDROOM 2 -BATHRM   LITE/RECPT	2
BEDROOM-1/BATHI LITE, RECPT	ROOM	13		12	12		14	RECPT (GFIC) (GFCI)	3
RECPT		15	20A 1P	12			16	LITE/RECPT	
LITE	LWAY	17		12	***************************************		18	RECPT (GFIC/WP)	3
RECPT-LOW VOLT				14			20	LITE (60 WATTS/850 L)	[3]
FURNACE			JUA	8				RECPT (GFI/WP)	3
ZZU V	and a facility of the second s	23	2P		12	1 20A 1 1P	24	RECPT (GFI/WP)	3
	CIRCUIT DESCRICU-1  KITCHENETTE RECPT KITCHENETTE RECPT KITCHENETTE REFRIG U.G. KITCHENETTE MICROWAVE BEDROOM-1/BATHILITE,RECPT GREAT ROOM/HAL RECPT GREAT ROOM/HAL LITE SMOKE DETECTOR RECPT-LOW VOLT	PANELBOARD: SQUARE NEMA 3R TYPE: ALL-IN-OI SERVICE  CIRCUIT DESCRIPT.  CU-1  KITCHENETTE RECPT KITCHENETTE RECPT KITCHENETTE REFRIG U.G. KITCHENETTE MICROWAVE BEDROOM-1/BATHROOM LITE,RECPT GREAT ROOM/HALLWAY RECPT GREAT ROOM/HALLWAY LITE SMOKE DETECTOR RECPT-LOW VOLT  FURNACE	PANELBOARD: SQUARE "D" NEMA 3R TYPE: ALL-IN-ONE SERVICE PANEL  CIRCUIT DESCRIPT. CKT NO.  CU-1 1 3  KITCHENETTE RECPT 5  KITCHENETTE RECPT 7  KITCHENETTE REFRIG U.G. KITCHENETTE MICROWAVE 11  BEDROOM-1/BATHROOM LITE,RECPT 15  GREAT ROOM/HALLWAY 15 GREAT ROOM/HALLWAY 17  SMOKE DETECTOR RECPT-LOW VOLT 19  FURNACE 21	PANELBOARD: SQUARE "D" VOLTA  NEMA 3R  TYPE: ALL-IN-ONE MOUN  SERVICE PANEL  CIRCUIT DESCRIPT. CKT  NO. C/B  CU-1 3 2P  KITCHENETTE 5 1P  KITCHENETTE 7 20A  RECPT 4 1 20A  KITCHENETTE 9 1P  KITCHENETTE 11 20A  KITCHENETTE 11 20A  KITCHENETTE 11 20A  MICROWAVE 1P  BEDROOM-1/BATHROOM 13 20A  LITE,RECPT 15 1P  GREAT ROOM/HALLWAY 15 1P  SMOKE DETECTOR 19 15A  RECPT-LOW VOLT 19 15A  FURNACE 21 30A	PANELBOARD: SQUARE "D" NEMA 3R NEMA 3R ALL-IN-ONE SERVICE PANEL       WOLTAGE: 120, MOUNTING         BRANCH         CIRCUIT DESCRIPT.       CKT NO.       CKT O/B       MOUNTING       BRANCH         CU-1       1       50A       MIRE/         CU-1       1       50A       BECPT       7       20A       12         KITCHENETTE REFRIG U.G.       9       10A       12         KITCHENETTE MICROWAVE       9       12A       12         MIRCOWAVE       11       20A       12         GREAT ROOM/HALLWAY       15       19       15A       12         SMOKE DETECTOR       19       15A       14         FURNACE       21       30A       8	PANELBOARD: SQUARE "D" NEMA 3R NEMA 3R ALL-IN-ONE SERVICE PANEL         VOLTAGE: MOUNTING         120/240 1 PH. 3           BRANCH CIRCUITS           BRANCH CIRCUITS           CIRCUIT DESCRIPT.         CKT NO.         C/B         WIRE/PHASE           CU-1         1         50A         8         10           KITCHENETTE RECPT         5         1P         12         12           KITCHENETTE REFRIG U.G.         9         1P         12         8           KITCHENETTE MICROWAVE BEDROOM-1/BATHROOM         13         20A         12         12           BEDROOM-1/BATHROOM LITE, RECPT         15         1P         12         12           GREAT ROOM/HALLWAY RECPT         15         1P         12         12           SMOKE DETECTOR RECPT-LOW VOLT         19         1PA         14         12           FURNACE 220V         21         30A         12         12	PANELBOARD: SQUARE "D" NEMA 3R TYPE: NEMA 3R ALL-IN-ONE SERVICE PANEL       WOUNTING       SURFACE RECESSED       125 AI         BRANCH CIRCUITS         CIRCUIT DESCRIPT.       CKT NO.       C/B       WIRE/PHASE       C/B         CU-1       1       50A       8       10       30A         CVB         KITCHENETTE       5       20A       12       12       12       20A       12       12       40A       RECPT       ERCPT       7       20A       12       12       20A       12       20A       12       20A       12       20A       12<	TYPE:   NEMA 3R   ALL-IN-ONE   SERVICE PANEL   BRANCH CIRCUITS	PANELBOARD:         SQUARE "D" VOLTAGE:         120/240 1 PH. 3 WIRE         10 K MIN AIC           NEMA 3R ALL-IN-ONE SERVICE PANEL           BRANCH CIRCUITS           BRANCH CIRCUITS           CIRCUIT DESCRIPT.         CKT NO.         C/B         WIRE/PHASE A B         C/B         CKT NO.         CIRCUIT DESCRIPT.           CU-1         1         50A B 10         30A 2 DRYER           XITCHENETTE TO

PANELBOARD SUB-PANEL PANEL "C"

I PROVIDE HANDLE LOCK OUT DEVICE.

2 CIRCUIT BREAKER SHALL BE RATED FOR ARC FAULT CURRENT INTERRUPTING (ARC)

3 GFI RATED CIRCUIT BREAKER

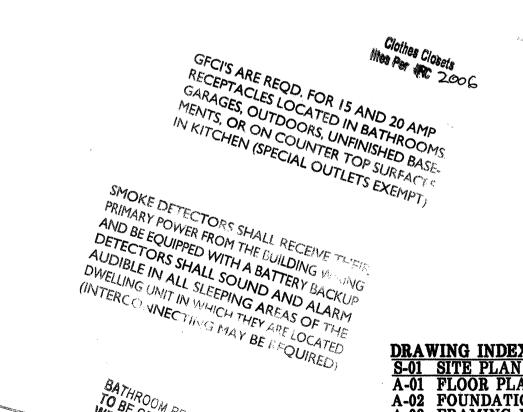
THIS PROJECT TO COMPLY W/ IRC-2006 & LOCAL AMENDMENTS! THIS PROJECT TO COMPLY W/ OUTDOOR LIGHTING CODE

#### LOAD CALCULATIONS IOIG SE I IVING AREA

1019 SF LIVIN	GAREA		
GENERAL LIGHTING (1,019 SF LA) X KITCHENETTE AREA	3 = 3,057 VA	3,057	
(4) - SMALL APPLIANCE CIRCUITS AT 1500 V.A. E.A. INCLUDE UNDER COUNTER REFRIG/MICROWAVE		6,000	
	SUB-TOTAL	6,000	
LAUNDRY AREA			
WASHER MACHINE DRYER MACHINE		1,500 5,000	
	SUB-TOTAL	6,500	1
	TOTAL	15,557	1
CALCULATIONS			_
100 % @ 10,000 VA		10,000	,
40% @ 5,557 VA = 2,223 VA		2,223	1
	SUB-TOTAL	12,223	1
MECHANICAL UNITS			
CU-1 (6,000 VA @ 100 % = 6,000 VA) WH-1 (4,500 VA @ 100%=4,500 VA)			١
WH-1 (4,500 VA @ 100%=4,500	VA)	4,500	
FU-1 (2,400 VA @ 65%) = 1,56		1,560	
	SUB-TOTAL	12,060	

SUB-TOTAL = (12,223 VA + 12,060 VA) = 24,283 VA

TOTAL = 24.283 VA / 240 V = 101 AMPSMAIN SERVICES - 125 A



A-01 FLOOR PLAN A-02 FOUNDATION PLAN 3 FRAMING PLAN A-04 SECTIONS A-05 ELEVATIONS INCLUSIVE HOMES MP-1 PLUMBING PLAN MP-2 MECHANICAL PLAN E-01 ELECTRICAL PLAN GN-1 GENERAL NOTES

FENSTER KENNETH & VINE MARY A JT/RS

GUEST QUARTER ADDITION TO EXISTING RESIDENCE TUCSON, ARIZONA 85704

J.A.C.A. DESIGN L.L.C. DRAFTING SERVICES TUCSON, ARIZONA www.jacadesigndrafting.com CELL(520) 808-4052 - FAX (520) 616-0200 POOR ARCHITECTURE IS NOT THE SAME

AS ARCHITECTURE FOR THE POOR

OWNER/DEVELOPER

814 W CHULA VISTA RD

OB. NO.

STAR DATE JUNE 2009

TUCSON AZ 85704-4215

814 WEST CHULA VISTA ROAD Parcel 102-04-0920 CASAS ADOBES ESTATES LOT 448 Docket 11478, Page 3219 Book 13, Page 76 Township 13S, Range 13E, Section

NO.

CHAPTER 4 - FOUNDATION

**HVAC** 

PART V - MECHANICAL

CHAPTER 12 - 23

All work must conform to all requirements of the International

standards & do not relieve the contractor from complying

1. Secure & pay for permits, inspections & certificates

2. Provide labor, materials, tools, machinery & equipment

3. Drawings are diagrammatic & intended to show appro-

ximate location of outlets, equipment, duct work &

4. Guarantee work to be free from defects in workmanship

acceptance. Promptly repair or replace materials or

equipment which prove defective within that period

6. Externally insulate all supply & return duct work below

the roof with 1" thick fiberglass FRK 25, sevis ED-75

insulation. Secure to duct. Insulate all lines to & from

7. Grills & diffusers shall be equal to the following Krueger

183-0BD for A/C

Sidwall Grille (supply) 880v-OBD for A/C

Ceiling Grille (return) S-80 5ff with hinge

construction, piping or electrical conduits.

SMAONA "Ton Velocity Requirements"

8. Support ducts from above, do not rest on ceiling

9. Build ducts of galvanized steel. Gauges & construction

shall be in accordance with the mechanical code &

10. Flash & counter flash all duct penetrations through

11. Tights shall be airtight & the joints shall be taped or

12. Instruct the owner in the operation of the equipment.

the delivery within 10% of the specified quantity.

15. Contractor to verify all electrical characteristics of

14. Adjusts the blades in all supply outlets to produce air

13. Balance the CFM output from all outlets with an approved

instrument & make all adjustments neccessary to bring

& material for a period of one year from date of final

including miscellaneous items required for proper

necessary for the construction of the plumbing system

Residential Code 2003 edition. Comply with all laws,

ordinances, codes, rules & regulations of authorities

with the more stringent requirements of the plans.

having jurisdiction. Codes are minimal acceptable

required by authorities having jurisdiction.

execution & completion of work.

without cost to the owner.

condensing units on roof.

figure no.

Ceiling diffuser

5. Duct sizes shown are sheet metal sizes.

# 1. <u>DESIGN LOADS</u>

- Design Loads Horizontal Wind loads
- 15 PSF Seismic Loadina Zone C Allowable Soll Pressure 1500 PSF Assumed

All work must conform to all requirements of the International

20 PSF

- 11. FOUNDATION AND EARTHWORK 1. All footing shall be founded at the depths
- indicated on construction drawings. 2. All earth fill under footing, floors, and other paved areas shall be machine compacted in 6 inch layers to the following maximum densities,
- at optimum moisture content; in accordance with ASTM D698-58T, Method D: A. Below foundation level 95% compaction B. Floor slab support & backfill 90% compaction
- C. Floor base course 95% compaction 3. Floor slab base course shall be 4 inches of well-graded sand and gravel base course material.
- 111. CONCRETE
- 1. All concrete shall be ready-mixed, conforming with ASTM-C94, and attain the following minimum 28-day compressive strenghts:
- A- Footing, stemwalls and slabs on grade 28 00 psi (max) B- Curbs, sidewalks
- 2. Concrete work shall conform with the latest editions of the following ACI STANDARDS OF RECOMMENDED PRACTICE & THE 2006 IBC.
- A- ACI 318-71 Building Code Requirements for reinforced concrete.
- B- ACI 605-59 Practice for Hot Weather Concreting C- ACI 614-59 Practice for Measuring, Mixing 4 Placina.
- D- ACI 347-67 Practice of Formwork
- 3. All concrete shall have a minimum cement content of 5-1/2 sacks per cubic yard, and a maximum water content of 6 gallons per sack of cement. Maximum slump shall be 4 inches.
- 4. All concrete shall contain pozzolith water reducing
- 5. All concrete slabs shall be cured with Edeco@1002 Curing Compound. All other concrete surfaces shall be kept moist and cured for a minimum of 7 days. 1V. REINFORCING STEEL
- Reinforcing steel shall conform to ASTM Specification A615, Grade 40
- Welded wire fabric shall have minimum strenght of 65,000 PSI and conform with ASTM designation A-185
- 3. Minimum concrete protection, except as noted: A- Slabs..... B- Walls & Columns.....1-1/2 inches. C- Footings.....
- 4. Lap all reinforcing steel splices, dowels, wall corners, and footing corners, at minimum of 50 diameters. Min. lap for masonry splices shall be 50 diameters.
- 5. See Section VII Masonry, Paragraph 7, below. V. <u>MISCELLANEOUS STEEL</u>
- All miscellaneous steel shapes shall conform to ASTM A36 with a minimum yield strenght of 36,000
- 2. Steel tubes to conform with ASTM A500. VI. LUMBER CONSTRUCTION
- 1. All wood construction shall conform to Chapter 6 of the International Residential Code 2003
- 2. All joists, nailers, studs, plates, and blocking shall
- be 1450 1-1.GE material. 3. Glu lams DF/DF 24 F-V4.
- Place 2" solid blocking between Joist & rafters @ supports. 5. Place boits in wook not less than 7 Dia. from end & 4 Dia. from the edge. Place boits not less than 4 Dia. on center.
- VII. MASONRY All masonry shall be constructed in accordance with Internation Residential Code 2003
- 2. Solid masonry units shall conform to ASTM C62, Grade MW, with a compressive strenght of
- 3. Concrete masonry units shall be hollow load bearing conforming to ASTM C90, type I, grade U-I, with a minimum 28-day net compressive strenght of 2,000 PSI.
- 4. Masonry mortor shall conform to ASTM C270-68, Type "S", with a minimum 28-day compressive strenght of 2,000 PSI.
- 5. Masonry grout shall conform to ASTM C476, coarse grout with a minimum 28-day compressive strenght of 2,000 PSI.
- 6. All masonry shall be reinforced with truss type "Dur-o-Wall" horizontally at 16 inches o.c. unless indicated otherwise. Vertical reinforcement shall be shown on the drawings. 7. Provide on #4 vertical rebar at all wall corners
- and intersections and jambs of at all wall openings and ends of walls. 8. Provide "Dur-O-Wall" wide flange vertical expansion ioints in masonry at maximum 32 feet o.c. or as indicated on drawings.

Plumbing

IPC-2006 & LOCAL AMENDMENTS

All work must conform to all requirements of the International Plumbing Code, 2006 Edition. Comply with all laws. ordinances, codes, rules & regulations of authorities having jurisdiction. Code are minimal acceptable standards & do not relieve the contractor from complying with the more stringent requirements of the plans.

- 1. Secure & pay for permits, inspections & certificates required by authorities having jurisdiction.
- 2. Provide labor, materials, tools, machinery & equipment necessary for the construction of the plumbing system including miscellaneous items required for proper execution.
- 3. Drawings are diagrammatic & intended to show approximate location of outlets, equipment & piping.
- 4. Guarantee work to be free from defects in workmanship & material for a period of one year from date of final acceptance. Promptly repair or replace materials or equipment which prove defective within that period without cost to the owner.
- 5. Pipe & Pipe fittings. ABS (sch 40) & PVC (sch 40) may be used where approv. by code.
- 6. Install cleanouts where indicated on the drawings & as required by the plumbing code. Distance between cleanouts not to exceed 75 feet.
- 7. Fixtures & trims as selected by Owner, furniched & installed by plumbing contractor, unless otherwise noted.
- 8. Wrap copper pipes leaning on or touching steel with poly-mithylene tape.
- 9. Connection to Fixtures:
- A. Make connections to all plumbing fistures & other plumbing equipment indicated on the drawings.
- B. Install joints between closets & flanges with asbestos composition gaskets or Bol-Max gaskets. Gaskets shall be germicidal, gastight, watertight & stainproof.
- 10. Tests:
- A. Make tests on water piping with hydrostatic pressure for a period of not less than an hour using an approved pressure gauge.
- B. Remove all items which may be damage by test pressure & replace after tests have been approved. C. Promptly repair leaks & repeat test.
- D. Test pressures shall be as follows: 150 PSI All water Hydrostatic 10 PSI Sewer Hydrostatic

1°x6° (25mm x 152mm) subfloor to ea. joist, face nail.

Sole plate to joist or blocking, at braced wall panels

13. Blocking between joists or rafters to top plate, toe-nail

2" (51mm) subfloor to joist or girder, blind and face nail. Sole plate to joist or blocking, face nail.

Wider than 1"x6" subfloor to each joist, face nail.

Nailing Schedule

Joist to sill or girder, toe-nail.

Bridging to joists, toe-nail each end.

NAILING SCHEDULE: IRC 2006

Top plate to stud, end nail

11. Doubled top plates, typical face nail.

15. Top plates, laps and intersections, face nail.

19. Ceiling joists, laps over partitions, face nail.

22. 1"(25mm) brace to each stud and plate, face nail 1"x8" (25mm x 203mm) sheating or less to each

Wider than 1"x8" (25mm x 203mm) sheating to each

20. Ceiling joists to parallel rafters, face nail

Stud to sole plats.

10. Doubled studs, face wall.

12. Double top plates, lap splice

14. Rim joist to top plate, toenail.

16. Continous header, two pieces.

17. Ceiling joists to plate, toenail.

21. Rafter to plate, toenail.

bearing, face nail.

bearing, face nail.

23. Built-up corner studs.

25. 2" (51mm) planks

24. Built-up girderand beams.

18. Continous header to stud, toenail.

CHAPTER 6 - WALL CONSTRUCTION

All framing to comply with

CONNECTION

painted with mastic.

EXTERIOR WALLS WITH LEDGER OR NAILED Stud to sole plate

Stud to top plate WITH TRUSSES OR RAFTER Stud to sole plate Stud to top plate

Cripples under sill

16d @ 16"(406mm)o.c. S-16d per 16" (406mm) 4-8d toe-nail or Gable to top plate 16d @ 24"(610mm)o.c.

16d @ 16"(406mm)o.c. 8-16d 5-8d 8d @ 6" (152mm)o.c.

2-16d 16d @ 16"(406mm)o.c. along each edge 3-8d

4-8d 3-16d 3-16d 3-8d 2-8d 2-8d 3-8d

**NAILING** 

2-8d

2-8d

3-8d

2-16d

2-16d

2-16d, end-nail

16d @ 24"o.c. 20d @ 32"(815mm) o.c. @ top bottom and staggered 2-20d at ends & at each splice. 2-16d at each bearing

CHAPTER 8 - ROOF CEILING CONSTRUCTION TABLE R802 & R802.5

distribution satisfactory to the occupants.

equipment prior to ordering & installing.

HARDWARE SCHEDULE All Hardware Strong tile by Simpson (or equal)

BEARING H25 every stud Stud to ledger/nailer A35 every stud

800v coolers

183 coolers

H25 every stud A35 every stud H25 every stud Truss/rafter to top plate

WINDOWS, DOORS Header to kingstud Kingstud/trimmer to sole pl. 2-H25 1 o/s, April H25 1 o/s, 1 1/s

INTERIOR WALLS Bearing walls, - Same hardware as exterior nonbearing

non-bearing - no hardware required.

OTHER NOTES BETTER DOUG. FIR.

26. Wood structural panels & partitioboard: 2-16d at each bearing Subfloor, roof & wall sheathing (to framing):

(1 inch = 2.54mm)

1/2" and less

19/32" - 3/4"

7/8" - 1" 6d (3) 8d (4) or 6d (5)

10d (4) or 8d (5) 1-1/8" - 1-1/4" Combination Subfloor - underlayment (to framing): (1 inch = 2.54mm)3/4" and less 6d (5) 7/8" - 1" 1-1/8" - 1-1/4" 8d 10d (4) or 8d (5) 27. Panel siding (to framing): 1/2" (13mm) or less 6d (6) 8d (6)

N\* 11 ga. (8)

5/8" (16mm) 28. Fiberboard sheathing 1/2" (13mm)

8d (6) N\* 16 ga. (9) 25/52° (20mm) N\* 11 ga. (8) 8d (4) N\* 11 ga. (9) 29. Interior paneling: 1/4" (6.4mm) 3/8" (9.5mm) 4d (10) 6d (11)

CHAPTER 33 - 42 Electrical installation shall comply with electrical codes in this area & with the National Electrical Code. All work must comform to all requirements of the Int. Residential Code 2006 edition. Comply with all laws, ordinances, codes, rules &

PART VIII - ELECTRICAL

Electrical

1. Electrical panels shall be square "D" type "QD" or

regulations of authorities having jurisdiction. Codes are

2. Minimun wire size shall be # 14 (cu) in Kitchen, Dining Room, Rec/Family Room install #1 2 (cu). All branch circuit wire shall be "TW"

minimal acceptable standards & do not relieve the contractor

from complying with the more stringent requirements of the

- 3. Verify exact location of mech. equipment, T-stats & control wiring, size of equip. eg. (HP, amps, voltage, etc) prior to rough-in & comply as required.
- 4. Electrical contr. shall do all wiring necessary & connect all special controls furnished by mech. contr.
- 5. Fuses of A/C units & motors shall be type "FRN". Fuses for panels feeders shall be type "KTR".
- 6. All disconnect switches for motors shall be HP rated. Motors shall be protected with proper sized fusetrons
- 7. If electrical conductors used are aluminum, terminate & splice as recommended by mfgr. & as follows: A. Clean conductors with a wire brush & apply "NO-OX-ID" "grade A" special (sealing paste)
- thoroughly as soon as conductors are cleaned. B. Use AL/CU type lugs. Connectors etc. with factory filled connector paste.
- 8. The following items may be used where permitted by
  - A. Non-metallic type cable. Non-metallic device boxes.

Alluminum conductors.

- 9. Verify the telephone co. as to conduit & trenching
- requirements & comply as required for entire job. 10. Switches & receptacles shall be Leviton, Slater or
- equal flush wit ivory plates of proper gang as required. 11. Light fixtures as selected by owner, furnished & installed
- by electrical contractor unless otherwise noted. 12. All wire shall be THMW/THWN or THWN INSULATION.

optional

NON-BEARING

H25 every other stud A35 every other stud none

H25 every other stud A35 every other stud H25 Plat o/s @ 32" o.c

or A53 inside @ 52" o.c.

H25 Plat ea. end H25 Plat ea. end. none

ALL STRUCTURAL FRAMING MEMBERS TO BE # 2 OR

OWNER/DEVELOPER FENSTER KENNETH & VINE MARY A JT/RS 814 W CHULA VISTA RD TUCSON AZ 85704-4215

DWGS by

CELL(520) 808-4052 - FAX (520) 616-0200 POOR ARCHITECTURE IS NOT THE SAME AS ARCHITECTURE FOR THE POOR

A-02 FOUNDATION PLAN A-03 FRAMING PLAN A-04 SECTIONS A-05 ELEVATIONS INCLUSIVE HOMES MP-1 PLUMBING PLAN MP-1 PLUMBING PLAN
MP-2 MECHANICAL PLAN
E-01 ELECTRICAL PLAN
GN-1 GENERAL NOTES GUEST QUARTER ADDITION TO EXISTING JOB. NO. 96-2k9 (B)
STAR DATE JUNE 2009

J.A.C.A. DESIGN L.L.C.

DRAFTING SERVICES
TUCSON, ARIZONA
www.jacadesigndrafting.com

ELL(520) 808-4052 - FAX (520) 616-0200

RESIDENCE

814 WEST CHULA VISTA ROAD
TUCSON. ARIZONA 85704
Parcel 102-04-0920
CASAS ADOBES ESTATES LOT 448
Docket 11478, Page 3219
Book 13, Page 76
Township 13S, Range 13E, Section
SHEET NO. GN-1 OF